

UNITED STATES DISTRICT COURT  
EASTERN DISTRICT OF VIRGINIA  
ALEXANDRIA DIVISION

UNITED STATES, et al., : Civil Action No.:  
Plaintiffs, : 1:23-cv-108  
versus : Monday, November 25, 2024  
GOOGLE LLC, : Alexandria, Virginia  
Defendant. : Day 16  
: Pages 1-125

The above-entitled bench trial was heard before the Honorable Leonie M. Brinkema, United States District Judge. This proceeding commenced at 9:56 a.m.

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1 P R O C E E D I N G S

2 THE DEPUTY CLERK: Civil Action Number  
3 1:23-cv-108, United States of America, et al. versus Google  
4 LLC.

5 Counsel, will you please note your appearances for  
6 the record.

7 MR. HENRY: Good morning, Your Honor. Ty Henry  
8 from the Virginia Attorney General's Office on behalf of the  
9 Commonwealth of Virginia and the other plaintiff states.

10 Your Honor, this morning I have with me my  
11 colleague, Jonathan Harrison, from the Virginia Attorney  
12 General's Office, and Morgan Feder from the New York  
13 Attorney General's Office.

14 THE COURT: Good morning.

15 Wait one second. We're on. Okay.

16 MS. WOOD: Good morning, Your Honor. Julia Tarver  
17 Wood from the Department of Justice on behalf of the United  
18 States plaintiffs. With me are my colleagues  
19 Aaron Teitelbaum, who will be conducting the first part of  
20 plaintiffs' closing today; Jeff Vernon, Michael Wolin, David  
21 Teslicko, and Mr. White will be running our equipment. And  
22 our wonderful team is here as well.

23 Thank you, Your Honor.

24 THE COURT: Good morning.

25 MS. DUNN: Good morning, Your Honor. Karen Dunn

1 on behalf of Google. With me today is Jeannie Rhee, Bill  
2 Isaacson, Eric Mahr, Erica Spevack, Craig Reilly, Mr. Matt  
3 Spalding, and obviously our wonderful team is here as well.

4 THE COURT: Good morning.

5 MS. DUNN: Good morning.

6 THE COURT: All right. So today we're having the  
7 closing arguments of counsel. We've allotted  
8 approximately -- and I say approximately -- 90 minutes per  
9 side. My understanding is the plaintiff wants to break that  
10 up 45 and 45.

11 Is that correct, or have you changed that?

12 MS. WOOD: No, Your Honor. It will be  
13 approximately an hour to an hour ten minutes, reserving  
14 approximately 20 minutes for rebuttal.

15 THE COURT: Ah. All right. That changes that.

16 All right.

17 Then probably we'll take the morning break after  
18 your opening closing, and then have the Google argument,  
19 which is about an hour and a half, and it may not go the  
20 whole thing, and then your rebuttal. And whether or not I  
21 do a lot of interrupting depends upon how you argue the  
22 case. All right. Very good.

23 So then we will let the plaintiff get started.  
24 And what we'll do is we'll let you know when you've done one  
25 hour. All right. And then let us know at that point how

1 much more time you want.

2 CLOSING ARGUMENT ON BEHALF OF THE PLAINTIFFS

3 MR. TEITELBAUM: Thank you, Your Honor. That  
4 sounds great.

5 For more than a decade, Google has rigged the  
6 rules of auctions, restricted its own customers' freedom of  
7 choice, and extinguished competition from better ad tech  
8 products through acquisitions. Why then have Google's  
9 advertiser and publisher customers continued to do business  
10 with Google rather than voting with their feet and taking  
11 their business elsewhere? And the answer is simple.

12 And if we could activate the slide, Mr. White.

13 Google is once, twice, three times a monopolist in  
14 the markets for publisher ad servers, ad exchanges and  
15 advertiser ad networks for open-web display advertising, and  
16 as a result, Google's customers have no realistic  
17 alternatives to doing business with Google and doing it on  
18 terms that benefit Google rather than its publisher or  
19 advertiser customers.

20 Google's own executive very aptly described  
21 Google's dominance in these three markets in an ordinary  
22 course of business communication when he said that the  
23 analogy would be if Goldman or Citibank owned the New York  
24 Stock Exchange.

25 Now, Google did not achieve its trifecta of

1 monopolies by accident. It did so through measures that  
2 strengthened its own dominance rather than making its  
3 products better or cheaper for its own customers. So, in  
4 other words, what Google was doing was executing on a  
5 strategy to do to display what Google had already done to  
6 search. And we already know what Google did to search  
7 because of what another district court across the river has  
8 already ruled.

9 So, Your Honor, I'm going to spend the remainder  
10 of my time addressing some key evidentiary points from the  
11 trial in a bit more detail and also cover what we consider  
12 to be Google's main arguments. So the way I at least plan  
13 to proceed is starting with why the plaintiffs' market  
14 definition reflects commercial realities, and then I'll  
15 address why Google has monopoly power in all three relevant  
16 markets, and then why Google's conduct was anticompetitive.  
17 And as I go, I'll also address Google's main  
18 counterarguments.

19 And we've got the slides up on the screen, and  
20 also I believe binders have been distributed, and if they  
21 haven't been, we probably should take care of that.

22 THE COURT: All right. They have not been.

23 MR. TEITELBAUM: And of course I'm happy to take  
24 the Court's questions on any topic at any time as I go.

25 But before I start with market definition, I do

1 want to make an overarching observation about the evidence  
2 that the Court heard at trial. And I think we're  
3 approximately on Slide 4 or 5 right now. On Slide 5.

4 And so the observation that I would like to make  
5 about the evidence from the trial is that all evidence is  
6 not created equal, and what the plaintiffs brought to trial  
7 were a wide variety of live industry participant witnesses  
8 who testified based upon long experience in the business  
9 from ad tech companies to publishers to advertising  
10 agencies, and they provided real-world insight into how the  
11 markets at issue in this case actually worked.

12 THE COURT: Well, you know, Google points out that  
13 you actually did not call -- I don't believe you called an  
14 actual advertiser. Did you not just call agencies?

15 MR. TEITELBAUM: That's correct, Your Honor. We  
16 called advertising agencies because those are the personnel  
17 that actually have the most relevant experience working with  
18 the tools that are at issue in the markets in this case.

19 THE COURT: But aren't the advertisers themselves  
20 the actual customers?

21 MR. TEITELBAUM: The advertisers are ultimately  
22 the customers, but they do work through the advertising  
23 agencies to actually operate the tools at issue.

24 THE COURT: But you don't think it would have been  
25 relevant and valuable for the Court to get a sense --

1 because we certainly got a sense from publishers as to their  
2 actual dissatisfaction and frustration with the stack. But  
3 we didn't hear any direct evidence from advertisers, the  
4 ultimate consumers, as to their satisfaction or  
5 dissatisfaction with the system.

6 MR. TEITELBAUM: I think what was illustrative is  
7 Google called a witness from the Census Bureau, as the Court  
8 may recall. And the issue with advertisers, who, of course,  
9 are harmed by Google's conduct, but they don't have the  
10 firsthand knowledge of what it's like to use Google's tools,  
11 and so the marginal benefit from calling them, when really  
12 the markets at issue are the tools that do these ad tech  
13 transactions, I think we felt that the most effective use of  
14 our time was to have the advertiser agencies speak to that.

15 THE COURT: All right.

16 MR. TEITELBAUM: And so, as I mentioned by  
17 contrast, from Google, the only live witness that the Court  
18 heard from Google that was not either on Google's payroll or  
19 the recipient of a grant from Google in the case of Courtney  
20 Caldwell was a witness from the Census Bureau.

21 And this evidentiary disparity is an important  
22 framework and lens for evaluating the record in this case,  
23 because it reflects an important truth, which is that while  
24 Google may have control of the markets they've monopolized  
25 here, they do not control the facts that govern the market

1 realities. The facts speak for themselves.

2 And so I'll turn now and discuss market  
3 definition. And as a threshold matter, I do want to make an  
4 important distinction about different types of competition  
5 and how they are or aren't relevant for this case. I'll  
6 break it down into three different types of competition.

7 First there's overall competition between firms in  
8 a sector of the economy. Second, there's competition within  
9 a single auction to buy an impression on the open web. And  
10 then third, there's competition between products in a  
11 particular antitrust product market and geographic market.  
12 And for the purpose of market definition in this case, the  
13 only one of those three things that matters is the last one,  
14 the third item, competition within a relevant antitrust  
15 product market and geographic market.

16 At trial, Google made repeated efforts to conflate  
17 these three concepts, and, in doing so, they're really  
18 confusing the issues that the Court needs to decide here.

19 It does not matter, for purposes of this case,  
20 whether Google views Meta or Amazon or TikTok as a worthy or  
21 worrisome advertiser -- adversary in some broader macro  
22 sense in the economy in terms of a rivalry between tech  
23 companies. And it also doesn't matter for market definition  
24 whether a particular auction for a particular impression on  
25 the open web is competitive. Those are both entirely

1 different questions from whether or not the market for the  
2 tools or for a particular tool is competitive in the sense  
3 of whether or not the relevant antitrust market is  
4 competitive.

5 And the D.C. District Court acknowledged this  
6 contrast in the *FTC v. Staples* case when it said that the  
7 mere fact that a firm may be termed a competitor in the  
8 overall marketplace does not necessarily require that it be  
9 included in the relevant product market for antitrust  
10 purposes. What we're concerned about here is competition  
11 within relevant antitrust product markets, not overall  
12 tech-sector rivalries that may be playing out in the  
13 American economy.

14 So now with those overarching points out of the  
15 way, I would like to focus on two key product market  
16 definition issues in this case. First of all, why there are  
17 separate product markets for publisher ad servers, ad  
18 exchanges and advertiser ad networks, the three tools that  
19 we talked about at trial, and then also why open-web display  
20 advertising is distinct from other forms of digital  
21 advertising. And I do think it's worth covering a few other  
22 basic principles just briefly.

23 First of all, market definition is not intended to  
24 be an abstract intellectual exercise; it is intended to be a  
25 pragmatic one. It's an analytic tool, and not an end unto

1 itself, as the District Court, once again in D.C., in the  
2 *United States v. Bertelsmann* case said. And we have those  
3 on the slides, too.

4 And, similarly, as the Supreme Court said in *Ohio*  
5 *v. American Express*, what we're looking for in the product  
6 market definition is the arena within which significant  
7 substitution in consumption or production occurs. We're not  
8 looking for extraordinary circumstances under which two  
9 products might theoretically be substitutable in edge case.

10 And the plaintiffs don't have to, and we're not  
11 trying to rule out every other conceivable way of looking at  
12 product market definition in this case. What we have to  
13 show and what we have shown is that the market definitions  
14 we've put forward meet the requirements that I just laid  
15 out.

16 And another observation from the Court in -- the  
17 D.C. District Court. Within a broad market, well-defined  
18 submarkets may exist, which, in themselves, constitute  
19 product markets for antitrust purposes. And I think  
20 paraphrased what that really means is that there is no one  
21 true market definition that the Court has to divine from the  
22 ether; the question is whether or not the product market  
23 definition that we've put forward allows the Court to assess  
24 competitive effects and market power and the like. And  
25 we've done that.

1 So starting with the tools that are at issue in  
2 this case. And I think this discussion can be relatively  
3 brief because there's no real dispute from the trial  
4 evidence that TikTok's ad tech tools or Meta's ad tech tools  
5 cannot be used to buy or sell open-web display advertising.  
6 So they're not reasonable substitutes for publisher ad  
7 servers like DFP, ad exchanges like AdX, or advertiser ad  
8 networks like Google Ads.

18 And sort of along those same lines, Mr. Mohan,  
19 when he testified, acknowledged that competitors can vary  
20 depending on the features or tools that they offer. So it  
21 matters whether or not what a publisher ad server is  
22 actually used for. It can't be interchanged with a buying  
23 tool, for instance, because those two tools have completely  
24 different purposes and completely different sets of  
25 customers.

1                   And thinking about the tools in this manner is  
2 100 percent consistent with how Google's own internal  
3 documents think about them as reflected, for instance, in a  
4 defense exhibit, DTX 758, that we have up on the screen,  
5 where Google, itself, is conducting a tool-by-tool  
6 competitive analysis of its tools versus Facebook tools.  
7 And so it's not breaking -- it's not looking at one giant  
8 mega market for display advertising; it is looking at each  
9 individual tool, like DoubleClick ad exchange, and asking  
10 what does Facebook have that competes, for instance, with  
11 our ad exchange.

12                   And the fact that these tools have multiple  
13 functions, for instance, the fact that DFP can also transact  
14 in other types of digital advertising, does not undermine  
15 our market definition. Because, as Professor Lee explained,  
16 for instance, gas stations may also sell potato chips, but  
17 that doesn't mean we can't evaluate competition between gas  
18 stations based on their sale of gas. And the Seventh  
19 Circuit acknowledged that when they said that the services  
20 are not in the same product market merely because they have  
21 a common provider. And so we have that cite on the slides  
22 as well for future reference.

23                   And, finally, I'll just note that plaintiffs'  
24 market definition has taken account of and is fully  
25 consistent with -- we are not at odds with *Ohio v. American*

1 *Express*, as Google has suggested. In fact, we correctly  
2 acknowledge and agree that ad exchanges, like AdX, are  
3 two-sided transaction platforms; it's just that the products  
4 on either side of the ad exchange, publisher ad servers, and  
5 advertiser ad networks are in separate product markets  
6 because they have different sets of customers, they have  
7 different functions, they have different competitors and the  
8 like.

9 So moving on now to open-web display advertising  
10 and why it's distinct from other types of digital  
11 advertising.

12 I think an overarching point that is worth making  
13 is that there is no confusion from the trial evidence or  
14 uncertainty among the industry participants who testified at  
15 the trial that open-web display advertising is very real and  
16 distinct from other types of digital advertising. We have  
17 just a few examples of the live witnesses that we called  
18 from various industry participants who agreed with that  
19 proposition. And that's also consistent with Google's own  
20 internal documents, like PTX 764 that we have on the slide,  
21 which makes reference to display web versus display app,  
22 versus search, et cetera.

23 So this assertion that we've heard repeatedly from  
24 Google that open-web display advertising is somehow a  
25 made-for-litigation concept is sort of like a zombie; it

1 seems to keep shuffling along through this case despite  
2 being repeatedly laid to rest by the trial evidence.

3 So turning now to the question of substitution  
4 between open-web display advertising and other types of  
5 digital advertising. Both live witnesses from trial and  
6 documents confirmed that social media, mobile app  
7 advertising, instream video, search advertising, none of  
8 those are reasonable substitutes for open-web display  
9 advertising. And that's true both from the perspective of  
10 the advertiser and also from the perspective of the  
11 publisher. So what the evidence actually showed is that  
12 these different types of digital advertising are  
13 complements, not reasonable substitutes.

14 So to provide a few examples just from the  
15 advertiser's perspective. Mr. Lowcock, he explained the  
16 differences in pricing, creative considerations, audience  
17 targeting considerations that exist among different types of  
18 digital advertising and why open-web display advertising has  
19 unique considerations in that regard.

20 And Mr. Lambert, for instance, one of the  
21 advertising agency witnesses, he likened the different types  
22 of digital advertising to different players on a baseball  
23 team. And just like the different players on a baseball  
24 team are complementary to each other, so, too, are the  
25 different types of digital advertising.

1                   And to borrow and expand on Mr. Lambert's analogy,  
2 when something's not going quite right with the pitcher on a  
3 baseball team, the solution is not to take out the pitcher  
4 and put in a second shortstop, for instance; the solution is  
5 to maybe make some adjustments to what the pitcher is doing  
6 to try of to right the ship.

7                   Now, from the publisher's perspective, I think  
8 it's even more clearcut that the lack of substitution among  
9 different types of digital advertising.

10                  As Mr. Wolfe explained at trial when we were  
11 talking about the example of the Staunton News Leader, an  
12 open-web publisher like the Staunton News Leader has Adspace  
13 on its web page as reflected on the slide, but also Adspace  
14 on its mobile app. And those are two completely different  
15 pieces of real estate, both of which the Staunton News  
16 Leader needs to sell at any particular time. And so from  
17 the perspective of a publisher like at Staunton News Leader,  
18 it's not an either/or proposition, either I'll sell the  
19 space on my app or I'll sell the space on my website, they  
20 really have to do both. The same as if you have two parcels  
21 of land that are for sale, selling one of those parcels  
22 isn't a substitute for selling the other.

23                  Google has suggested that substitution by  
24 advertisers alone might be sufficient to discipline a  
25 monopolist even if publishers can't substitute, but that

1 argument is unsupported by the actual trial record, because  
2 what the evidence showed is that open-web publishers have  
3 inventory that they need to sell each time a user opens a  
4 web page, and that inventory does not go away or decrease  
5 even if some particular advertisers might decide that  
6 they're going to spend money on social advertising instead  
7 of open-web display advertising. Those open-web publishers  
8 are stuck with that inventory that we need to sell no matter  
9 what.

10 I'll just briefly touch on programmatic versus  
11 direct deals, because I think the trial evidence was  
12 relatively clear on that.

13 But both advertiser and publisher customers  
14 explain -- witnesses explain that there are sales force  
15 considerations and overall demand and market considerations  
16 that place more or less a cap on the number of direct deals  
17 that particular advertisers or publishers are going to be  
18 able to do. And there really isn't really a magic lever  
19 that they can pull to increase the quantity of direct deals  
20 that they're doing; they're basically doing as many as they  
21 can. And so contrary to what Dr. Israel suggested,  
22 publishers cannot simply work harder to generate more direct  
23 deals than they're already generating; they're doing the  
24 best that they can.

25 And speaking of Dr. Israel, what Google has

1 proposed with respect to its arguments on market definition  
2 is essentially an amorphous two-sided ad tech market that  
3 they didn't quite define, but that they at least suggested  
4 might be out there. And that suggestion rests pretty much  
5 entirely on Dr. Israel's testimony as opposed to on the  
6 testimony of any fact witnesses.

7 And so that proposal for market definition is a  
8 raid against all of the fact witnesses that the plaintiffs  
9 called at trial. And it's frankly pretty unsurprising that  
10 Dr. Israel does not have more factual support for that  
11 proposed market definition because, as we discussed on  
12 cross-examination, his track record in recent courts is  
13 consistent with that.

14 And here's just a few other examples of why that  
15 single two-sided market just is not correct and can't be  
16 viable. If it's a single two-sided market, for instance,  
17 why did we read in Neal Mohan's internal emails about a  
18 "three pillar" strategy to control the platform which is  
19 DFP, and the buying tool, which is Google Ads, and the  
20 exchange in between? And that's reflected on the slide for  
21 future reference if the Court wants to look at it. And he  
22 was talking about three pillars, not one giant pillar.  
23 Google's own internal documents make clear it's three  
24 markets; not one.

25 Google's all digital advertising market also fails

1 to grapple with the fundamental reality that open-web  
2 publishers like the Daily Mail, for instance, or the  
3 Staunton News Leader, they have to use a publisher ad server  
4 to sell their open-web display ads. So how is it that there  
5 can be a valid market definition that suggests that TikTok's  
6 or Meta's ad tech tools, which have no ability whatsoever to  
7 transact in open-web display advertising at all, can be a  
8 reasonable substitute for a publisher ad server? But that  
9 is essentially what Dr. Israel is proposing in his proffered  
10 two-sided market.

11 And we also heard from Dr. Israel that many  
12 advertisers use more than one form of advertising at once,  
13 and that information on its own is really just not  
14 informative. The Court asked Dr. Israel during his  
15 testimony about the analogy of stoves and microwaves. And I  
16 think that's illustrative, because many families are going  
17 to have both stoves and microwaves, and even though both of  
18 those two items cook food, just because a family has both  
19 doesn't mean that a microwave and a stove are reasonable  
20 substitutes. In fact, when a family has both, that tends to  
21 indicate that those two items are complements; not  
22 substitutes.

23 I'll just briefly touch on the fact that Google's  
24 position on market definition is also directly at odds with  
25 the position it took before another federal court. And I

1 know that the Court has heard this before and seen it in the  
2 papers. But I do think it speaks to the credibility of  
3 Google's proposed market definition that it has completely  
4 done a 180-degree turn from what it argued in the Northern  
5 District of California. And what Google's market definition  
6 litigation strategy appears to be is that when the  
7 plaintiffs say it's one market, Google says it's three; and  
8 when -- and then when we say it's three markets, Google says  
9 it's one. And so I do think that that's an important  
10 consideration for the Court to take into account when  
11 evaluating Google's arguments on market definition, even if  
12 the Court's not inclined to formally grant our motion for  
13 judicial estoppel.

14 And so while we're on the subject of  
15 inconsistency, I also just want to make one brief comment  
16 about Google's post-trial papers in general, which is just  
17 to ask that the Court use caution in taking some of the  
18 factual assertions there at face value, because they do not  
19 necessarily line up with the evidence that's cited in  
20 support.

21 So just taking one example. On page 7 of Google's  
22 post-trial proposed findings of fact, Google asserts that  
23 multiple witnesses describe the marketplace as  
24 "hyper-competitive" after header bidding, but the citations  
25 make clear that the market was described in that fashion

1 only relative to the previous waterfall setup in which  
2 exchanges weren't allowed to compete at all. And then the  
3 rest of the quotes generally describe the growth of header  
4 bidding in general. So this is just a general caveat that,  
5 consistent with what I said before, the evidence really  
6 speaks for itself in this case, and it's not the  
7 characterizations of that evidence that should control.

8 On geographic market definition, I'll be extremely  
9 brief. Both sides agree that a U.S. market in terms of  
10 geography is appropriate. A worldwide market is also  
11 appropriate, because even as Google's own witnesses agreed,  
12 there is a single AdX, a single DFP, a single Google Ads for  
13 the whole world. We don't have AdX United States and AdX  
14 Europe, for instance. So the products function worldwide,  
15 and so a worldwide market is an appropriate way of looking  
16 at them.

17 THE COURT: You've spent a fair amount of time in  
18 both your papers and so far in the argument trying to  
19 distinguish one of the basic differences between your  
20 approaches to the case, and that is, you're arguing that  
21 there are these three separate tools, and in each one of  
22 which, the Court should consider a separate market; right?  
23 Whereas Google has taken the position that the ad stack is  
24 really one entity that has to be looked at as basically  
25 using the AmEx type of model. All right.

1                   But I think it's on paragraph 78 of your proposed  
2 findings, there's an interesting statement there. You say:  
3 Even in a market comprised of an entire ad stack -- which  
4 would be the Google's theory -- that you still believe that  
5 the evidence would show that there's direct evidence of  
6 monopoly even if we look at this as a two-sided  
7 transactional market.

8                   I want you to address that point.

9                   MR. TEITELBAUM: Absolutely, Your Honor.

10                  And so that actually does get to the next thing  
11 that I was going to address anyway, but I'm going to respond  
12 directly to the Court's question. Which is that ultimately  
13 direct evidence of monopoly power is, as the Supreme Court  
14 has said, the power to control prices and exclude  
15 competition. So we typically have to engage in a market  
16 definition analysis in order to be able to appropriately  
17 evaluate those effects. But in this particular case, we  
18 have compelling direct evidence that Google is doing things  
19 like saddling its own customers with product features that  
20 they do not want.

21                  For instance, in the context of UPR, the Unified  
22 Pricing Rules, taking away Google's own publisher customers'  
23 ability to set differential floors between different ad  
24 exchanges. That's something that literally decreases the  
25 freedom of choice of its own customers. And the fact that

1 Google is able to do that without fearing the consequence  
2 that all of its publisher customers are going to say that's  
3 not acceptable to us, we're going to go use a different  
4 tool, is direct evidence that Google has market power in a  
5 particular market. And specifically because Google's  
6 publisher customers are stuck using DFP, they can't go  
7 anywhere else.

8                   Similarly, when Google --

9                   THE COURT: Well, they can't go anyplace else  
10 because they want access to that great mass of advertisers  
11 that are on the other end of the exchange. Which, again,  
12 you're not directly answering my question.

13                   Basically what I'm asking is, does it make any  
14 difference in the long run, given these other factors that  
15 you've pressed, does it truly make any difference whether  
16 the Court ultimately decides that we have three separate  
17 tools, three separate markets, or just the one ad stack, if  
18 the whole ad stack, as it operates, is resulting in this  
19 anticompetitive monopolistic result, does it make any  
20 difference how I've defined it?

21                   MR. TEITELBAUM: Ultimately the plaintiffs can  
22 prevail regardless for the reasons that I've outlined, but I  
23 do think that it makes more analytical sense to think about  
24 it in terms of three different products because those  
25 products are not fungible, and they're not reasonable

1 substitutes, and Google's own documents reflect that.

2                   But nonetheless, I do think that direct evidence  
3 of monopoly power that we've seen from Google where it does  
4 things that it knows its customers are not going to like,  
5 but it does them anyway is an indication that it knows that  
6 it has monopoly power, however the Court ultimately wants to  
7 characterize what that market is.

8                   And so I'll just touch on a few additional points  
9 about monopoly power -- and this does also go to what the  
10 Court was getting at -- which is that Google recognizes that  
11 one of its major sources of monopoly power is the connection  
12 across these different products, from Google Ads, to the ad  
13 exchange, to DFP. And that's something that's reflected  
14 here in PTX 551, for instance, an internal on Google  
15 communication, the value of Google's ad tech stack is less  
16 in each individual product, but the connection's across all  
17 of them.

18                   And so what the evidence has shown in this case is  
19 that Google freely pulls levers in different parts, in  
20 different tools to strengthen its dominance in other tools.  
21 So, for instance, it uses its control over DFP to give  
22 advantages to AdX. It uses its control over Google Ads to  
23 give advantages to AdX. It uses AdX to give advantages to  
24 DFP. And so that is also a meaningful source of Google's  
25 monopoly power in all three markets as we've characterized

1 it, but also just more generally is a source of Google's  
2 monopoly power.

3 I'll just make a few specific points about the  
4 individual products.

5 So Google's publisher customers recognize that  
6 they are stuck with DFP as reflected in these two trial  
7 exhibits here, and Google recognizes the same thing. For  
8 instance, Google recognized that it would take an act of God  
9 to switch publisher ad servers. So that's also an excellent  
10 example of direct evidence of monopoly power. And that's  
11 PTX 1814.

12 Similarly, Google has spent a lot of trial time  
13 talking about companies like Facebook. And I think it's  
14 quite telling that, as reflected in Mr. Boland, from  
15 Facebook's testimony, that Facebook tried and failed to  
16 build its own publisher ad server. And they determined that  
17 it would be infeasible for them to succeed with their  
18 publisher ad server because of Google's control across the  
19 technology stack as reflected in the slide that we have  
20 here.

21 In advertiser ad networks, Google Ads has the  
22 advantage of a tremendous pool of search advertisers that it  
23 can port over and use to strengthen its monopoly power in  
24 open-web display advertising.

25 Ad exchanges. The fact that Google also spent a

1 lot of trial time talking with how dynamic and changing this  
2 marketplace is, but I think it's worth contrasting what  
3 they're saying about this market with -- in PTX 1199A here,  
4 the remarkable stability of that orangish/red line there in  
5 the center, that through all of the things that have  
6 happened over more than a decade, the entry and exit of  
7 Facebook into its attempt to build an advertiser ad network,  
8 all the other technological developments, Google has stayed  
9 steady at almost exactly 20 percent. That is extremely  
10 powerful evidence -- direct evidence of monopoly power.

11 I'll just also touch briefly on market shares.

12 Google dominates the publisher ad server market with market  
13 shares in the high 80s to low 90s, depending on whether  
14 we're looking at the U.S. or worldwide. Similarly, Google  
15 Ads is in the same general range. And even AdX, while its  
16 percentage in absolute terms is lower, PTX 1237 here on the  
17 slide reflects that AdX dwarfs all of the other competitors,  
18 and, in fact, is -- it dwarfed its next largest competitor  
19 by more than a factor of nine, and it's almost twice the  
20 size of all of the other ad exchanges on this graph  
21 combined.

22 So I don't think it is really responsive to AdX's  
23 incredible disparity in size here to say that, for instance,  
24 in the *Kolon Industries* cases in the Fourth Circuit, that  
25 when there was one firm with 60 percent market share and one

1 firm with 40 percent market share, that that somehow  
2 undermines the notion that AdX can have monopoly power with  
3 56 percent market share in this particular context.

4 We've addressed intent to monopolization in our  
5 papers. I'm not going to belabor that here. I'll just note  
6 that even if the Court isn't persuaded that AdX has monopoly  
7 power, this type of market share is still dangerously close  
8 to showing monopoly power, especially if the Court considers  
9 the flanking monopolies on either side, the monopoly in DFP  
10 and also the monopoly in Google Ads.

11 And as far as specific intent to monopolize, which  
12 is also an element for attempted monopolization not present  
13 in the other elements, we'll talk about this a bit later,  
14 but Google's documents that we displayed throughout the  
15 trial reflect a lot of employees saying the quiet part out  
16 loud, essentially that what we are trying to do is  
17 strengthen Google's dominance. So the Court can see that  
18 there is specific intent to strengthen Google's dominance  
19 throughout the trial exhibits.

20 One last observation about monopoly power more  
21 generally, and this is an observation that the D.C. Circuit  
22 made in the *Microsoft* case.

23 That as we were talking about earlier in response  
24 to the Court's question, Google's behavior is only rational  
25 for a firm that knows that it has monopoly power, because it

1 does things that it knows that its customers are not going  
2 to like, but it does them because it knows that its  
3 customers have nowhere else to go. And so that's consistent  
4 with what the D.C. Circuit observed, conduct that could only  
5 be rational if the firm knew that it possessed monopoly  
6 power.

7 So now as I'll turn and spend most of the  
8 remainder of my time talking about Google's conduct, and so  
9 my goal here, especially mindful of the time, is not to  
10 rehash what we've said in our papers, but to try to hit some  
11 key points.

12 First of all, I think it's worth remembering that  
13 there is no element of any of the claims here that are  
14 asking the Court to determine whether first look or last  
15 look or the AdMeld acquisition or any of the other specific  
16 instances of conduct in this case standing alone violated  
17 the Sherman Act. The question is whether Google's course of  
18 conduct as a whole was exclusionary. And the Fourth  
19 Circuit's recent opinion in the *Duke Energy* case reflects  
20 that analysis. And *Duke Energy*'s not an outlier, but it is  
21 just worth mentioning for its recency.

22 And before I turn to Google's conduct more  
23 specifically, I think there's also another observation  
24 that's worth making from a Third Circuit case, *LePage's v.*  
25 *3M*. Which is that there are some things that a monopolist

1 cannot do, even if those things might be acceptable for a  
2 smaller upstart competitor. And that's reflected in the  
3 Third Circuit's opinion here because a monopolist doesn't  
4 have the same market constraints on its behavior. That's  
5 why the Sherman Act has elements of both monopoly power and  
6 exclusionary conduct.

7 So if there's sometimes a temptation to look at  
8 some of the things that Google did and think, well, it's the  
9 free market, sometimes you need sharp elbows to get ahead,  
10 well, it's worth remembering that the standards are  
11 different for a monopolist because when a monopolist has  
12 market power, its conduct can be a lot more damaging than a  
13 firm that has 2 percent market share, for instance.

14 So now with those overarching principles in mind,  
15 I am just going to touch on some of the Google's conduct.  
16 And I think Ms. Wood's analogy from her opening is apt.  
17 It's the monopolist's playbook dividing the conduct in sort  
18 of three broad categories: Controlling the competition,  
19 controlling customers, and then controlling the rules of  
20 auctions.

21 So very briefly, just the DoubleClick acquisition  
22 is how Google came into possession of AdX and DFP, and that  
23 is what enabled all of Google's conduct that came after.  
24 And even as early as 2009, Mr. Mohan realized that control  
25 of the publisher ad server was going to be key to the

1 remainder of Google's strategy, because he noted in the  
2 highlighted text that if we lose platform share, we can  
3 build the best GCN in the world -- that's the reference to  
4 what became Google Ads -- but we will still be at a severe  
5 risk of being disintermediated if Yahoo or Microsoft owned  
6 the ad tag on the publisher page.

7 So, to paraphrase that, he knew that controlling  
8 the publisher ad server and controlling publisher inventory  
9 was going to be key, and it was the DoubleClick acquisition  
10 that enabled the crucial part of Google's strategy.

11 Moving on to AdMeld just briefly. AdMeld was a  
12 threat to Google really in two main ways. First of all, it  
13 offered real-time bidding technology, which put it as a  
14 direct threat to Google's AdX tool, and it also provided a  
15 different way for publishers to manage their indirect or  
16 programmatic inventory that was different than Google's tied  
17 together AdX and DFP option. And so that's why Google  
18 bought it and parked it somewhere in the words of  
19 Mr. Mohan's contemporaneous email. And he tried to provide  
20 sort of a post-hoc rationalization for what that means, but  
21 I do think that the document speaks for itself when it's  
22 read in the appropriate context.

23 The next general category of conduct are the ties  
24 and exclusivity arrangements between Google Ads, AdX and  
25 DFP. And so what Google did was it placed two intertwined

1 conditions on its publisher customers. The first condition  
2 was, as reflected in the slide, if you want access to Google  
3 Ads unique demand, you must use AdX. And then the second  
4 condition was if you want real-time bids from AdX, you must  
5 use DFP. And the combined effect of these two conditions  
6 was to require Google's publisher customers to use DFP as  
7 the publisher ad server if they wanted to meaningfully  
8 access Google Ads demand.

9 And I think it's important to note that this  
10 conduct stretches basically throughout the entire time  
11 period that we talked about at trial. So it's a background  
12 reality that Google's publisher customers had to deal with  
13 when they were confronted with Google's other conduct like,  
14 for instance, first look or UPR, they are stuck within  
15 Google's tools because of those ties and because, as the  
16 Court said, they want access and need access to Google Ads  
17 unique demand.

18 And so just a little bit more on the exclusivity  
19 between Google Ads and AdX. Google's own employee,  
20 Mr. Rowley, acknowledged that it compelled publishers to  
21 work with Google's products, and that the reason that this  
22 condition existed was, in the words of Google's own  
23 employee, was an all-or-nothing proposition. And that's  
24 PTX 124 at the bottom of this slide. Use AdX as your SSP or  
25 ad exchange, or you don't get access to our demand. And

1 that's very effective, because as the Court heard from our  
2 publisher witnesses, they felt that they could not turn off  
3 AdX or go somewhere else other than AdX because of what a  
4 significant portion of their revenue would be lost if they  
5 did that.

6                   And contrary to what Google suggested at trial,  
7 Google Ads does, in fact, have unique demand. We provided a  
8 few examples on the slide here, but it's Google's own  
9 employees in internal documents, as well as industry  
10 participants, that are recognizing that fact in the context  
11 of their ordinary business communications. It's not a  
12 circumstance where these are external-facing advertising  
13 documents where Google is saying to prospective customers,  
14 oh, we have unique demand. They may very well do that, too,  
15 but it's crucial that the evidence at trial showed that even  
16 during ordinary business operations, Google was  
17 acknowledging that they -- that Google Ads represented  
18 unique demand.

19                   And another important ramification of the Google  
20 Ads exclusivity to AdX, is that this is an example of Google  
21 Ads making one of its products literally worse from the  
22 perspective of its advertiser customers in order to serve  
23 its broader aim of maintaining its dominance in the ad  
24 exchange market. And that's reflected, for instance, in  
25 PTX 198 on the slide because Google's employees in charge of

1 Google Ads knew that it would be better for Google's  
2 advertiser customers if Google Ads bid into a wide variety  
3 of exchanges on an unrestricted basis as opposed to  
4 primarily and predominately bidding into Google Ads.

5 THE COURT: Wasn't one of the issues at trial,  
6 though, the latency problem, if, in fact, you have multiple  
7 auctions into which one can bid that would necessarily slow  
8 down the process?

9 MR. TEITELBAUM: So I don't actually think that  
10 Google has even asserted with respect to this particular  
11 issue that latency was the concern. They did attempt to at  
12 least suggest that header bidding posed a latency concern.  
13 But ultimately the evidence just didn't bear that out.

14 For instance, we heard from several witnesses that  
15 the waterfall setup, for instance, that existed before  
16 header bidding also had latency problems, but that really  
17 header bidding was no better or worse from a latency  
18 perspective than any of the other setups.

19 As I will talk about a little bit later, and I can  
20 address it briefly now, Google has suggested that there were  
21 cybersecurity considerations that meant that it was better  
22 or that they needed to only bid into AdX instead of other  
23 exchanges in order to properly account for cybersecurity,  
24 but the evidence just never bore that out because we have  
25 the benefit of documents like PTX 198 where Google employees

1 are expressly saying the reason that we're engaging in this  
2 product is to prop up AdX's dominance. They're not saying  
3 the reason we engaged in this conduct is because we're  
4 concerned about cybersecurity.

5 I'll also just note more generally that it's  
6 undisputed that Google, as a tech company, is going to think  
7 about cybersecurity to some degree. But this notion that,  
8 writ large, Google is concerned about cybersecurity is not a  
9 valid pro-competitive justification for taking the actions  
10 that it actually took in this case. It would have to  
11 actually show -- which it hasn't done -- that cybersecurity  
12 considerations required them to take the actions in this  
13 case as opposed to doing something that would not have been  
14 exclusionary, and they just haven't carried their burden of  
15 doing that.

16 And so I'll just briefly just return to the second  
17 condition that Google placed on its publisher customers,  
18 which was if you want access to real-time bids from AdX,  
19 then you must use DFP, and that's the way that Google forced  
20 all of these publisher customers to use DFP as their  
21 publisher ad server and to stay with DFP as their publisher  
22 ad server.

23 And the reason that this tie, which is also a  
24 standalone Section 1 and 2 claim in our complaint was  
25 effective was because AdX was the only place that publishers

1 could get that unique Google Ads demand since Google Ads  
2 primarily and predominately only bid into AdX and not into  
3 other exchanges. That's also, by the same token, the reason  
4 why Google's own employees acknowledged that Google was able  
5 to sustain the 20 percent AdX take rate. Because as  
6 Google's own employees recognized in internal  
7 communications, there wasn't otherwise a persuasive value  
8 proposition from AdX other than that it was connected up to  
9 this Google Ads unique demand in this way.

10 Google has suggested that AdX direct, which was a  
11 way of receiving sort of a substandard connection between  
12 AdX and other publisher ad servers, is somehow a reason why  
13 that tie actually isn't present. But this is just an  
14 example of Google's arguments in court being at war with  
15 their own internal documents and with what their own  
16 witnesses have said previously. Because as we have here,  
17 for instance, in PTX 933, in a chat communication no less,  
18 that AdX direct is a concept for antitrust.

19 And so Google recognized at the time that it was  
20 creating AdX direct so that it would potentially have an  
21 argument in court, that, no, we're, in fact, not engaging in  
22 this tying conduct. But the market realities actually  
23 reflect, as we noted in paragraph 163 of our post-trial  
24 proposed findings, that only about 1 percent of the  
25 advertising spend on AdX flows through AdX direct. And that

1 was as of 2023. And that's fairly persuasive evidence just  
2 as a practical matter that the -- that AdX direct is just  
3 not a meaningful alternative.

4 As I mentioned, Google's also separately liable  
5 for tying as a result of this conduct. And I'll just note  
6 about that that because we've brought a Section 1 and  
7 Section 2 tying claim, we actually don't have to show  
8 monopoly power in the ad exchange market in order to prevail  
9 on that claim. Market power, short of monopoly power, is  
10 also sufficient. So if the Court determines that, for  
11 instance, a 56 percent market share is not sufficient to  
12 show monopoly power, it's still more than enough to show  
13 market power and would be sufficient for us to prevail on  
14 the tying claim.

15 I already touched on first look and UPR for a bit,  
16 so I'm not going to return to those and repeat myself unless  
17 the Court has questions about either of those.

18 I do think that last look is worth mentioning  
19 here. And as the Court I'm sure recalls from the trial  
20 evidence, this was a circumstance where because of Google's  
21 control over the publisher ad server, it was able to give  
22 itself essentially a last bite at the apple for any result  
23 of a header bidding auction, and so it could decide whether  
24 or not it wanted to bid just a tiny bit more in order to win  
25 an impression after the auction had already taken place.

1                   And Google's own employees recognized that last  
2 look gave AdX a significant informational advantage, and  
3 that this was a very powerful advantage that Google was able  
4 to grant to itself because of its control of these products.

5                   Sell-side Dynamic Revenue Share, as reflected in  
6 the bottom exhibit, for instance, was just another way for  
7 Google to exploit the fact that it had this last-look  
8 advantage, because it could also choose to modulate its take  
9 rate to try to win even more impressions. And this was  
10 something that only it was able to do because it was able to  
11 give itself the privilege of going last.

12                  And Google has suggested, both with respect to  
13 first look and last look, that there were a variety of  
14 obscure or poorly understood work-arounds for publishers to  
15 try to get around first look or last look. And the evidence  
16 showed that for a variety -- and that's essentially what  
17 their responses boil down to in their papers.

18                  And the evidence showed, first of all, that  
19 Google's publisher customers either weren't aware of those  
20 work-arounds or did not view them as viable alternatives,  
21 but I think a broader point that's worth making is that the  
22 fact that we're even having this conversation about Google  
23 saying, well, maybe our customers didn't like this conduct  
24 but there were a variety of complicated and convoluted  
25 work-arounds that they could have used to get around the

1 things that we're doing to our own customers is illustrative  
2 of sort of the heart of the problem in this case, which is  
3 that Google is knowingly taking actions that it knows that  
4 its customers do not want and do not like in order to  
5 benefit the dominance of its own tools.

6                   And just one sort of closing comment about first  
7 look and last look. With respect to Professor Milgrom's  
8 testimony, first of all, Professor Milgrom recognized that  
9 it was better for publishers through header bidding to get  
10 more real-time bids. He acknowledged that during his  
11 testimony when discussing whether header bidding was a good  
12 idea. And Google's conduct was in many ways aimed at trying  
13 to frustrate the results of header bidding auctions. I'll  
14 also note that Professor Milgrom's testimony, he expressly  
15 did not offer an opinion one way or another about whether  
16 first look or last look harmed competition.

17                   So I do think it's worth remembering that  
18 despite -- you know, he testified about first look and last  
19 look, but he doesn't have an opinion about whether or not  
20 they're anticompetitive, and the facts bear out that they  
21 were, in fact, anticompetitive.

22                   And I'll just pause briefly on Project Poirot.  
23 There was a lot of evidence at trial indicating that  
24 Google -- one of Google's goals was to "dry out" header  
25 bidding exchanges, and that's reflected in PTX 426.

1                   And so what we saw in Project Poirot, as well as  
2 their other conduct, is that they used their control of a  
3 variety of different tools to take actions wherever they  
4 could to try to reduce the scale and revenue of exchanges  
5 that were participating in header bidding. And Google  
6 acknowledged that Project Poirot was actually quite  
7 effective by increasing spending on AdX by 7 percent and  
8 reducing spend on most other exchanges. And we've addressed  
9 in our papers at paragraphs 342 to 345 some of Google's  
10 counterarguments on Project Poirot, and in the interest of  
11 time, I'll move on for now.

12                  And the only thing that I want to mention about  
13 UPR that I didn't cover before when we were discussing it is  
14 Google has suggested somehow that by taking away its own  
15 customers' freedom of choice to set different floors for  
16 different ad exchanges, that that was somehow better because  
17 it was simpler for its publisher customers. But that is  
18 essentially Google saying to its own customers Google knows  
19 best. But that is not accurate. Competition knows best.  
20 Freedom of choice knows best. And so it's actually  
21 illustrative, I think of Google's approach to its conduct in  
22 these markets, that it is suggesting that simplicity is an  
23 end in and of itself when it's taking away its own  
24 customers' freedom of choice. Certainly eliminating all  
25 options and all competitors would also be simpler, but

1 that's not something that would be tolerable under the  
2 Sherman Act.

3                   One of Google's main legal arguments is that  
4 virtually everything that they have done in this case is a  
5 refusal to deal under *Verizon Communications v. Trinko*. So  
6 I do want to spend a little bit of time addressing that  
7 argument in some more detail.

8                   And the first reason why Google is not correct is,  
9 to go back to the *Duke Energy* case, which specifically said  
10 that when you have an atypical complex exclusionary campaign  
11 like we have here, it's not appropriate to break up conduct  
12 into little pieces and examine it in isolation under these  
13 categories of refusal to deal or product design or what have  
14 you. So that's reason Number 1 why we don't even get to  
15 this refusal to deal analysis that Google is trying to  
16 persuade the Court to engage in.

17                   But even if the Court were to look at the conduct  
18 piece by piece, I think it's essential to look at what  
19 *Trinko* was actually about. What were the actual facts of  
20 that case. And what it was about was *Verizon*  
21 *Communications'* unilateral refusal to build infrastructure  
22 to connect up to one of its rivals in a particular market,  
23 in that instance it was a telephone company. And the  
24 conduct in *Trinko*, none of it was customer-facing.

25                   The conduct here is customer-facing, and that's

1 why it matters that the doctrine is properly referred to as  
2 a refusal to deal with rivals. There's no doctrine of  
3 lawful refusal to deal with customers, for instance. And  
4 all of the conduct that we've talked about in this case from  
5 Google is customer-facing. In UPR, it took away its own  
6 customers' freedom of choice to set different price floors  
7 among different ad exchanges.

8 In first look, it prevented its own publisher  
9 customers from choosing to give a different ad exchange the  
10 ability to bid first before Google. Similarly, with last  
11 look, taking away its own customers' ability to conduct a  
12 header bidding auction and then have the winner of that  
13 auction be the advertiser that actually wins that  
14 impression. Every single instance of conduct is Google  
15 versus its customers. We are not talking about Google's  
16 conduct versus its rivals.

17 I think where Google really gets into trouble is  
18 what it suggested is any conduct whatsoever that has some  
19 kind of downstream effect on Google's relationship to its  
20 competitors is necessarily a refusal to deal, and,  
21 therefore, is per se lawful. But if Google were correct  
22 about that, then virtually all conduct would be a refusal to  
23 deal because anything that a firm does that affects  
24 competition is going to have a bearing in some manner on its  
25 interactions with its competitors. But really the question

1 for the Court to answer is, is the conduct customer-facing?  
2 And in each instance, the answer is yes, and that's where  
3 the refusal to deal analysis is --

4 THE COURT: Well, don't you think with the  
5 exchange, there it would seem to the Court that there  
6 definitely is competition with the rivals. There were other  
7 attempts to bring in exchanges, and that would be a key fact  
8 in this whole ad stack. I mean, that's the connector.  
9 That's where the fees are collected, it's at that point.  
10 And I think it's hard to say that that is actually addressed  
11 at customers; that's addressed at rivals.

12 MR. TEITELBAUM: I would respectfully disagree  
13 with that, because what the conduct actually is is a --  
14 another way of looking at this, and this was something that  
15 I was going to say momentarily anyway, which is that a  
16 conditional refusal to deal, which -- also known as a tie,  
17 is definitionally not a lawful refusal to deal under *Trinko*.  
18 And the conduct that's relevant -- most relevant for the ad  
19 exchange is Google is saying to its publisher customers, not  
20 to any competitors, it's not talking to its competitors,  
21 it's saying to its own publisher customers, if you want  
22 access to our ad exchange with real-time bids, then you must  
23 use our other product, publisher ad servers in DFP. And so  
24 that is not a unilateral refusal to deal with a rival; that  
25 is a tying restriction being placed on a customer.

1                   And, I'm sorry. I didn't mean to interrupt.

2                   THE COURT: No, that's all right. Go ahead.

3                   MR. TEITELBAUM: And Footnote 8 of the *Kodak* case  
4 that we cited, the Supreme Court *Kodak* case also gets at  
5 this, which is it's always possible as a matter of semantics  
6 to rephrase a refusal -- a tie as a refusal to deal, because  
7 you could say I'm not going to deal with anyone who doesn't  
8 also -- in Product A who doesn't also buy Product B from me.

9                   But that's just a semantic game that's rephrasing a  
10 conditional refusal to deal to make it sound unilateral.

11                  And so I'm not going to be as articulate as the Supreme  
12 Court was in Footnote 8, but I would just commend that  
13 particular portion of *Kodak* to the Court because they  
14 address that argument spot on.

15                  And then I think even if we get to a point where  
16 the Court thinks that we might be dealing with some conduct  
17 that might properly be considered a unilateral refusal to  
18 deal, that's not the end of the analysis, because predatory  
19 conduct or conduct that's taken with anticompetitive malice,  
20 even if it is a refusal to deal still violates the Sherman  
21 Act. And so that's a holding that's reflected in the *Aspen*  
22 *Skiing* case, for instance. It's reflected in the *Viamedia*  
23 case from the Seventh Circuit more recently. And also  
24 within *Trinko* itself that talks about a firm having dreams  
25 of monopoly as being an exception to some sort of immunity

1 or ability to not be held accountable under the Sherman Act.  
2 And what we have here is a tremendous amount of evidence  
3 through Google's own internal documents -- and I see that  
4 I'm at roughly 60 minutes, so I'll be cognizant of that.

5 THE COURT: Yes.

6 MR. TEITELBAUM: The documents are rife with  
7 evidence of anticompetitive malice.

8 And so I have three slides here I'm not going to  
9 read to the Court in the interest of time. But as I said  
10 before, Google's employees had a tendency to say the quiet  
11 part out loud in terms of what their intent was. And so  
12 will do to display to what Google did to search is an  
13 example of anticompetitive malice.

14 This recognition that UPR, by itself, makes it  
15 look extremely self-serving, at the bottom there, PTX 762,  
16 is an acknowledgment of anticompetitive malice. This  
17 all-or-nothing proposition in PTX 124 is an example of  
18 anticompetitive malice. Parking a competitor, AdMeld, once  
19 again, an example of anticompetitive malice.

20 And so even if we get to a point where the Court's  
21 analyzing this conduct under the refusal to deal framework,  
22 the plaintiffs still prevail, especially when you consider  
23 that under specific *Aspen Skiing* factors, for instance, the  
24 *Aspen Skiing* case talks about breaking off a prior course of  
25 dealing as being particularly illustrative or probative of

1 anticompetitive malice. And that's exactly what we have  
2 with UPR, where Google took a freedom of choice that its  
3 customers once had in being able to set different price  
4 floors, and it took that away in 2019. And so that would  
5 be, for instance, directly responsive to some factors that  
6 the Supreme Court has set forth.

7 Mindful of the time, I'll also just briefly cover  
8 Google's suggestion that its conduct is properly considered  
9 a product design. But the cases that we cited in our papers  
10 explain that the standard is essentially the same for  
11 evaluating a product design versus any other type of  
12 conduct. The question is whether it harmed competition and  
13 whether it coerced consumers and impeded competition, and  
14 then whether or not there's a valid pro-competitive  
15 justification. And for all the reasons that we've already  
16 covered, all of Google's conduct has done those things.

17 And there is not a computer code exception to the  
18 antitrust laws where Google can say, well, it would require  
19 technical work for us to do something different, and,  
20 therefore, it can't be a violation of the Sherman Act, but  
21 that's just not how the law can work. Because of course  
22 Google expended technical work to harm competition in the  
23 first place. So whether it's going to take work to undue  
24 the harm that we've done is just not the right question to  
25 ask.

1                   As far as pro-competitive justifications, I'll  
2 just touch on a few things. First of all, Google has  
3 suggested in its papers that we might bear the burden to  
4 disprove a valid business reason under Fourth Circuit  
5 precedent. And we've covered that to some degree in our  
6 papers, but I'll also just note, this is a case that we did  
7 not cite in our papers, but it's worth noting. The *Dickson*  
8 *v. Microsoft Corporation* case from the Fourth Circuit  
9 expressly cited the D.C. Circuit *Microsoft* case in  
10 Footnote 16 for the proposition that the burden shifts to  
11 the defendant to proffer a pro-competitive justification for  
12 its conduct. So that's just further confirmation that the  
13 burden that lies in the first instance with Google to  
14 support its pro-competitive justifications.

15                   And just turning briefly to its cybersecurity --  
16 general cybersecurity arguments. We covered this a bit  
17 before. Google suggested, well, we had to do this stuff  
18 because of cybersecurity. But the problem with that  
19 argument is that Google's own documents, like PTX 198, where  
20 they actually talk about their decision-making process for  
21 why Google Ads does not bid unrestricted into other  
22 exchanges, they're not talking about cybersecurity; they're  
23 explaining that the reason that they're taking these actions  
24 is because they are concerned about propping up AdX's  
25 dominance. And so the documents speak for themselves in

1 that regard, and I won't belabor that point.

2 I will just also note that we have, in PTX 199 and  
3 835, that even Google itself considered spam from  
4 third-party exchanges to be at acceptable levels and  
5 comparable to AdX. So even on its own terms, this notion  
6 that Google had to somehow restrict bidding activity into  
7 third parties because of spam is just at odds with their own  
8 documents.

9 Dr. Israel also primarily suggested that there's a  
10 separate pro-competitive benefit of just more generally  
11 integrating products together is, in and of itself, a  
12 pro-competitive justification.

13 And I would just once again in the interest of  
14 time commend to the Court, the *Microsoft* court in the D.C.  
15 Circuit confronted virtually an identical argument from  
16 *Microsoft* that there's just sort of a writ large, a  
17 generalized benefit from binding products together and  
18 providing an integrated experience. But the D.C. Circuit  
19 expressly rejected that argument because *Microsoft* neither  
20 specified nor substantiated exactly what those benefits are.  
21 Just saying it's nice to have integrated products is not  
22 good enough. And --

23 THE COURT: I'm sorry. But would you agree that  
24 if there were evidence that there were significant  
25 advantages to having such an integrated setup, that that

1 would be a significant factor for a Court to look at in  
2 terms of deciding whether or not to find the defendant a  
3 monopolist?

4 MR. TEITELBAUM: So while that evidence is not  
5 present in the record, I think if Google -- Google would  
6 have to show that there are sufficient benefits of  
7 integration to competition that outweigh the anticompetitive  
8 effects of that conduct. And if they could do that, that  
9 would be a relevant consideration for the Court. But it's  
10 not sufficient just to say that integration is nice for a  
11 variety of reasons; it has to be responsive to the  
12 competitive harms that Google has worked through its  
13 conduct.

14 THE COURT: But let's say that an entity creates  
15 the very best widget out there, there's no other widget that  
16 comes close to performing like that widget, and as a result  
17 of that, consumers want to buy that widget, and they'll pay  
18 almost any price to get it because it is absolutely bar none  
19 the best.

20 How do you handle that when the argument is made  
21 that that somehow is monopolistic behavior? It's  
22 anticompetitive in the sense that, you know, no one's  
23 looking at any other type of widget, this is the widget they  
24 want.

25 MR. TEITELBAUM: So I would respectfully disagree

1 that that would be anticompetitive. I think what the Court  
2 just described is competition on the merits, because it's  
3 building the best product on its own merits and having that  
4 be the reason that people want to buy it.

5 The problem is, Google hasn't done that. Instead  
6 of trying to build the best widget, they've pulled a variety  
7 of levers to force people to buy a widget that they don't  
8 even like that much. For instance, Ms. Layser from News  
9 Corp explained that DFP is a 25- or 30-year-old clunky piece  
10 of technology, but she's stuck with it because of the tie  
11 between AdX and DFP.

12 THE COURT: You know, in the very opening, I think  
13 in the first two or three sentences, you mentioned that  
14 there are better ad tech products out there. And a note to  
15 myself, what are they?

16 So in the record of this case, I'm just curious,  
17 can you point to what you would describe as the better  
18 products that are out there?

19 MR. TEITELBAUM: So I think there's a variety of  
20 different examples. For instance -- well, part of the  
21 problem is that a lot of products that might have been  
22 better died out because of their inability to compete with  
23 Google. But I think examples of that would include Kevel.  
24 For instance, we had a witness from Kevel here testify about  
25 his efforts to compete with Google in the publisher ad

1 server market and to provide a variety of functionality to  
2 publisher customers that Google wasn't offering. But what  
3 he explained was he wasn't able to succeed. Because of the  
4 tie between AdX and DFP, he's not able to persuade customers  
5 not because his product isn't better, but because of other  
6 anticompetitive conduct that Google is engaging in, he  
7 cannot bring those customers over to him. And we had  
8 similar testimony, for instance, from Equativ, another  
9 publisher ad server. It was deposition testimony who  
10 explained the very same thing. Or just from the perspective  
11 of a publisher, for instance, that Mr. Wolfe or other  
12 publishers talked about the possible decision-making process  
13 of we would like to use a different publisher ad server, but  
14 we just can't get out of this tie that Google has imposed on  
15 us.

16 And I think it's also notable that the Court asked  
17 about better ad exchanges. Almost all of the other ad  
18 exchanges, with the exception of that one niche player with  
19 1 percent market share, charged less than AdX. And so  
20 that's an example of a better product because it's cheaper  
21 than AdX. Cheaper than that 20 percent take rate. And  
22 so -- but publishers are nonetheless stuck using AdX because  
23 it's the only way that they can get Google Ads. So, for  
24 instance, Rubicon, Magnite, Exchange, PubMatic, all of those  
25 would be examples of competitors that customers might like

1 to use because they're better, but they just can't.

2 THE COURT: You know, if one looks at the totality  
3 of the evidence in the case and the totality of the  
4 witnesses called, certainly by the plaintiff, it does look  
5 as though the heavier emphasis is on the exchange publisher  
6 side of the stack. And, you know, your argument has been  
7 that you feel we are dealing with three separate tools. But  
8 only two of those tools have really, really been, it seems  
9 to the Court, the main focus of this case.

10 Do you want to talk a little bit more about the  
11 ad -- Google Ad aspect and why you think that that also is  
12 so detrimental to the consumers in that group?

13 MR. TEITELBAUM: Absolutely, Your Honor.

14 So there's a couple of reasons. So first, Google  
15 Ads is a critical part or a critical contributor to why the  
16 tie between AdX and DFP is so devastating. So I know that's  
17 a publisher issue, so I'm not trying to get us back to  
18 publishers.

19 But also from the perspective of advertisers, they  
20 would, for instance, like to have a product that bids  
21 unrestricted into a variety of different exchanges. But  
22 instead with Google Ads, as Google's own employees  
23 recognized, they are restricting Google Ads' bidding  
24 activity purely in order to support AdX's dominance, even  
25 though they, themselves, recognize that they would be

1 providing a better product for their advertiser customers if  
2 they bid into all exchanges on an unrestricted basis similar  
3 to the way other tools do. So I think that's one example.

4 The other example that I would point to the Court  
5 is Unified Pricing Rules, which is that when Google took  
6 away from its publisher customers the ability to set  
7 different floors for different exchanges, it also -- well,  
8 or at least took away their ability to floor AdX higher than  
9 other exchanges, they also took away their ability to floor  
10 Google Ads higher than other advertiser buying tools. And  
11 what that meant is it took away some of advertisers' freedom  
12 also to be able to make better deals with some of Google's  
13 competitor ad exchanges or competitor publisher tools. And  
14 so that also -- UPR is a good example of conduct that very  
15 directly harmed both publishers and advertisers.

16 And I would also just briefly -- just commend to  
17 the Court also Mr. Simcoe's -- Professor Simcoe's testimony  
18 that the harm generally from the overcharge from AdX does  
19 fall both on publishers and advertisers. And even Professor  
20 Chevalier agreed that an overcharge would be borne at least  
21 partially by advertisers and publishers.

22 So mindful of the time, I would like to reserve  
23 the balance of my time for Ms. Wood on rebuttal.

24 But I'll just close by saying that Google is not  
25 the defendant in this case because of its size, and we are

1 not here to enlist the Court in some sort of forced sharing  
2 or central planning function with respect to the ad tech  
3 ecosystem. We are here to hold Google to account for its  
4 rapacious anticompetitive conduct spanning over a decade in  
5 the markets that we've been discussing. And the result of  
6 Google's conduct has been less innovation, less consumer  
7 choice, and higher prices in these markets, and these are  
8 the markets that make the free and open Internet possible.

9 And so on behalf of the United States and the  
10 plaintiff states, I'd ask that the Court hold Google  
11 accountable for the harm that it has caused to the  
12 competitive process in these markets and find Google liable  
13 on all of the Sherman Act claims in the amended complaint.  
14 Thank you.

15 THE COURT: Thank you.

16 Well, we're almost on the same pattern that we  
17 were during the trial. So we're going to take a mid-morning  
18 break until 11:30, and we'll hear Google's entire argument.

19 (A brief recess was taken.)

20 THE COURT: All right. Ms. Dunn.

21 MS. DUNN: Thank you, Your Honor. And with the  
22 Court's permission, we would like to hand out binders.

23 THE COURT: Of course.

24 MS. DUNN: Thank you.

25 THE COURT: Are the folks on the right side of the

1 courtroom, are you all having trouble hearing the lawyers as  
2 well or just the Court? I understand some of you are having  
3 trouble hearing. You're okay now? All right.

4 MS. DUNN: I can try to be loud also.

5 May I proceed?

6 THE COURT: Yes, ma'am.

7 CLOSING ARGUMENT ON BEHALF OF THE DEFENDANT

8 MS. DUNN: May it please the Court.

9 I will start with where I think the antitrust laws  
10 require us to start. To rule for the plaintiffs in this  
11 case, the Court would have to overrule not one but two  
12 important controlling lines of Supreme Court precedent, the  
13 law of two-sided transaction platforms as articulated in  
14 *Ohio v. AmEx*, and the law of refusal to deal as set forth in  
15 *Trinko* and *linkLine*.

16 The law recognized two-sided transaction platforms  
17 and protects integrated systems because they help encourage  
18 investment, integration, innovation and the network affects  
19 fuel economic growth.

20 In opening statement, this is what the plaintiff  
21 said their case was going to be about. They said when one  
22 company controls an entire marketplace, no one wins except  
23 the monopolist. Prices go up, innovation goes down, and the  
24 industry as a whole suffers.

25 Well, you have to ask, what happens when prices go

1 down? Innovation goes up, and the industry as a whole  
2 benefits, because that's certainly what happened here.  
3 Because of the investments by Google and its competitors,  
4 digital ad spend grew 18-fold between 2008 and 2022.  
5 Google's prices went down, and the number of quality of  
6 transactions went through the roof.

7 This is the exact opposite of proof in a  
8 monopolization case. And even though Google didn't have to,  
9 even though the law would have expressly protected a  
10 decision not to do this, Google spent billions of dollars  
11 and countless software engineer hours making its products  
12 interoperable with rivals, which grew the pie for everyone.

13 Now, plaintiffs admit that they want access to  
14 Google's customers and technology that is comparable --  
15 that's their word -- to Google's own access. And in the  
16 words of plaintiffs' witnesses on the slide, they want the  
17 technology and the customer base that Google built to be  
18 community property. Those are their words.

19 But to turn Google's innovations and customers  
20 into community property, plaintiffs would need to convince  
21 this Court to dispense with an approach to antitrust that  
22 has been a fixture of the American legal system for years.  
23 DOJ antitrust officials have publicly stated that that's  
24 their intent, and they bring to this Court arguments that  
25 have been rejected elsewhere.

1                   Over the course of this trial, plaintiffs  
2 presented no testimony from any small business, either  
3 publisher or advertiser. They demonstrated no products,  
4 either Google's or anyone else's. They intentionally  
5 avoided calling as witnesses Google's biggest ad tech  
6 competitors, including Microsoft, Amazon, Meta's corporate  
7 representative, and Criteo. And they failed to rebut the  
8 testimony of a Nobel Prize winner in auction design. The  
9 law simply does not permit, and the evidence does not  
10 support, what the plaintiffs are seeking in this case.

11                  Google's conduct in this case is a story of  
12 innovation in response to competitive forces. Out of nearly  
13 1,000 product launches a year, we've put on this timeline  
14 just the few product designs and events that plaintiffs have  
15 focused on. And many of the challenged acts in this case  
16 are no longer in effect, and the most recent occurred in  
17 2019.

18                  So first let's start with the DoubleClick  
19 acquisition in 2008. Here's how the plaintiffs talk about  
20 it in their findings of fact. The acquisition allowed  
21 Google to further enhance the market power of the  
22 DoubleClick ad server over its pool of publisher customers  
23 by connecting those publisher customers to Google's  
24 substantial advertiser base.

25                  So this, in plaintiffs' view, was the original

1 sin, connecting Google's existing advertiser customers to  
2 third-party publishers because it was in the customer's  
3 interests. And, notably, plaintiffs are complaining about  
4 Google's decision to open up its system to third parties to  
5 benefit its customers.

6 Plaintiffs next complain about Dynamic Allocation,  
7 which they say gave Google a first look. Well, as Professor  
8 Milgrom pointed out, one of plaintiffs' biggest problems in  
9 this case is that they ignore historical context.

10 Dynamic Allocation -- invented by DoubleClick, not  
11 Google -- put competitive pressure on the existing  
12 waterfall. It was so innovative that at first, as Mr. Mohan  
13 told the Court, they had to go around to conferences and  
14 persuade people to use the technology. And he said that  
15 Dynamic Allocation made inventory 136 percent more valuable.  
16 He described it as kind of a watershed moment for the  
17 industry.

18 An even bigger improvement is what came next,  
19 which Mr. Mohan described as flying the plane while putting  
20 on the engines. In other words, when Google rebuilt the  
21 nascent AdX exchange with real-time bidding while continuing  
22 to operate it. With the benefit of real-time information,  
23 Google was able to help publishers increase their yield by a  
24 whooping 188 percent.

25 Now, as real-time bidding exploded in popularity,

1 Google built out a DSP called DV360. And now Google was  
2 offering two different options to its customers, one, a  
3 curated and heavily-vetted ad network called Google Ads; and  
4 a DSP, which gave Google's advertiser customers access to  
5 over 100 rival exchanges. That's called choice, and it's a  
6 good thing.

7 Brad Bender, who was at the time in charge of  
8 Google's display business, explained some customers choose  
9 to use Google Ads, some choose to use DV360, and some choose  
10 to multi-home. And what Google wanted was to find the best  
11 way for its customers to achieve their goal. And so this is  
12 an example of Google increasing customer choice in response  
13 to competition. Plaintiffs say this is not a good thing and  
14 that the products should be similar.

15 Then, as the Court well knows, in 2014, header  
16 bidding transformed the industry by allowing multiple  
17 exchanges to compete head to head in real time. Publishers  
18 quickly figured out that they could choose to use Dynamic  
19 Allocation to run an auction in AdX after the header bidding  
20 auction. And Google had a competitive response to header  
21 bidding, which was called open bidding, which allowed  
22 exchanges to compete head to head in real time.

23 As Jonathan Bellack testified, Google responded  
24 competitively because our customers were reporting that this  
25 technology that they were finding valuable. For us to not

1 respond by trying to deliver value would give them more  
2 reasons to try other things.

3                   And Google witnesses Sarah Stefaniu and Nitish  
4 Korula demonstrated for the Court the actual products, and  
5 we all saw how Google, this allegedly terrible and  
6 exclusionary monopolist, actually facilitates Prebid and  
7 Amazon header bidding on its own platform.

8                   Now, by 2019, things had become so complicated  
9 that Google addressed the chaos on its own platform and  
10 launched the Unified First Price Auction and the Unified  
11 Pricing Rules, which some publishers didn't like, but many  
12 actually embraced because they made sure that the highest  
13 bidder won. Now, again here, output expanded and publishers  
14 made more money.

15                   Now plaintiffs say that the UFPA is what we should  
16 have been doing earlier, but they don't say when. And the  
17 problem is, Your Honor, is this is not how innovation works.  
18 You can't just skip to the end. The ideas of the past are  
19 what lay the groundwork for the improvements of today, which  
20 in turn creates the opportunity for the innovations of  
21 tomorrow.

22                   And as Professor Milgrom said, at the time that  
23 each of these changes occurred, they were improvements, and  
24 he said they benefited Google's own customers, either  
25 advertisers or publishers or both.

1                   And the Court has seen this chart before. For all  
2 its innovation and billions invested every year, only a  
3 small share of the exponential growth in U.S. display  
4 advertising spend accrues to Google. And that's 10 percent,  
5 and the 10 percent includes YouTube, which plaintiffs  
6 exclude from their markets.

7                   And as output has dramatically increased, prices  
8 have fallen. On this slide is public data that shows ad  
9 tech fees as a percentage of ad spending, which has been  
10 declining since 2014. In 2022, the industry average was  
11 42.3 percent. And the evidence showed that Google's  
12 end-to-end take rate, which has also been declining, is much  
13 lower than the industry average, around 31 percent.

14                  And as output increased and prices have fallen,  
15 quality has improved. Click-through rates have gone up,  
16 cost-per-click has gone down, and that means advertisers,  
17 who everyone agrees care about getting a great -- greatest  
18 return on their investment, have been able to do that. And  
19 the data has shown also that publishers are making more  
20 money per ad. And because output has gone up, they're  
21 selling more ads, and that makes them even more money, and  
22 they increase their yield. So output up, prices down,  
23 quality increased, the plaintiffs cannot make a case -- the  
24 exceptional case for governmental interference by declaring  
25 an antitrust violation in this market.

1                   And even though it was a long time ago, the Court  
2 will recall that in opening, we told the Court that the  
3 evidence would show plaintiffs' case fails for these three  
4 independent reasons. And, today, we are here to confirm  
5 that the evidence did just that.

6                   We are -- I'm going to spend my time this morning  
7 talking about, first, plaintiffs did not prove their markets  
8 or market power, including because their markets are  
9 foreclosed by *AmEx v. Ohio*.

10                  Second, that plaintiffs did not prove  
11 anticompetitive conduct, including because Google's conduct  
12 was per se lawful under *Trinko*, *linkLine* and other cases in  
13 that line.

14                  And third, that plaintiffs did not prove  
15 anticompetitive effects, and there were pro-competitive  
16 effects of Google's conduct.

17                  Now, before I do all of that, I just want to say,  
18 as we saw this morning, plaintiffs do rely a lot on picking  
19 sentences out of documents, and all of these have been  
20 addressed in our findings of fact. So today, I'm just going  
21 to make the point by looking at what is probably plaintiffs'  
22 favorite document, the one about the stock exchange.

23                  Elsewhere in that document, Jonathan Bellack, who  
24 wrote that sentence that the plaintiffs like so much, says  
25 his thoughts are late night jetlag ramblings that might not

1 make the sense in the light of day. He also says he's in  
2 active ideation mode, so all kinds of ideas are flying  
3 around.

4 In another document that the plaintiffs like, they  
5 pick out the statement of Mr. Blais, who says here that he  
6 has basically zero experience and is an engineer who knows  
7 very little about anything.

8 They showed you today not one but two documents  
9 from a speech by David Rosenblatt. He was at DoubleClick,  
10 came over to Google and left three months later. So he was  
11 at Google for all of three months. And if you looked at the  
12 next sentence that he said after he talked about search, he  
13 said they wanted to emulate search in that they wanted to  
14 make things easy to buy and standardized metrics and  
15 definitions so they're not reinventing the wheel.

16 We saw through this trial that, at Google, anyone  
17 was welcome to share their thoughts at any time over email,  
18 and there were robust debates and idea sessions. And that  
19 doesn't mean that these things actually happened,  
20 necessarily; sometimes it didn't mean that they were  
21 considered. So --

22 THE COURT: Well, you know, now you're getting  
23 close to the very significant argument the plaintiffs' made  
24 that they did not rise in their opening statement today  
25 about the problem with the way in which the history was

1 encouraged to be shut off. And as you know, you're into now  
2 an area where I know Judge Mehta sort of punted that issue,  
3 acknowledged the problem, and did not feel it made a  
4 significant difference in his analysis. But it's out there.  
5 And so I think you're a little bit on dangerous territory  
6 when you start talking about what the folks at Google were  
7 thinking or saying because we don't know all of what they  
8 were thinking or saying.

9 MS. DUNN: Understood, Your Honor.

10 And I will just say -- and you raised Judge  
11 Mehta's view. In this case -- part of my point to the Court  
12 is we're going to show the full context. We're going to  
13 show the competitive analysis, we're going to show witness  
14 testimony, we're going to show the competition landscape,  
15 we're going to show data. This is a huge monopolization  
16 case, and there's Supreme Court precedent that's on point,  
17 there's data that's on point, there's analyses that's on  
18 point. And I think my point to the Court is that in the  
19 full context of everything to decide the monopolization  
20 case, we believe that there is ample evidence to do that. I  
21 will not belabor this issue. Your Honor has seen the legal  
22 hold and has commented on that and heard from the witnesses,  
23 and the Court has everything the Court needs to make a  
24 judgment in that regard.

25 So moving on to the plaintiffs' failure to prove

1       their markets or market power. So as I mentioned,  
2       plaintiffs' case is foreclosed by Supreme Court precedent  
3       about two-sided transaction platforms.

4                   THE COURT: Well, let's talk about that.

5                   I mean, I've read that *AmEx* case more times than I  
6       probably should have. But it's an interesting case because  
7       it's not dealing with any type of dynamic programmatic  
8       purchasing; it's looking at the one-on-one transaction when  
9       somebody who has an *AmEx* credit card goes to a merchant and,  
10      you know, engages in a transaction. It's one-on-one.

11                  We're dealing with a completely different setup  
12      here, it seems to me when you're dealing -- I understand  
13      there's a certain attraction, and frankly earlier on in the  
14      case, I thought that that was a very attractive argument.  
15      But the more I've looked at the case and compared it to the  
16      facts and the realities of this case, the more problems I  
17      have in saying how it really does map onto the -- the way  
18      this -- the way these transactions operate. All right.

19                  So I want you to really try to explain to me why  
20      you think that that is the correct legal way of looking at  
21      this case.

22                  MS. DUNN: Your Honor, I would love to do that,  
23      and I hope that -- we actually have prepared slides that  
24      hopefully will help the Court, and I will also answer any  
25      other questions that the Court has. We think *AmEx* is

1 completely on point. And a key issue, and what *AmEx* itself  
2 is a distinguishing feature and an important distinction is  
3 indirect network effects, which nobody disagrees are present  
4 here, and that the jointly-consumed transaction, which  
5 there's expert testimony on both sides, is between the  
6 advertiser and the publishers.

7 So the other thing that's happening is I would beg  
8 to differ with the idea that there's really one-on-one  
9 transactions, necessarily, in the credit card industry. I  
10 think it's a very -- in both cases there are tools, and the  
11 point of the tools and the setup, including the cards, the  
12 merchant readers, all of that, the point of the tools and  
13 the tool pathway is to facilitate a transaction between the  
14 buyer and the seller. And without -- the point that *AmEx* is  
15 making is that if you have a tool on one side but nobody's  
16 willing to make a sale on the other side, then it's useless  
17 to have a tool on the one side. And I -- you know,  
18 hopefully as we go along, I'll answer the Court's questions.

19 But what I read as the animating feature of *AmEx*  
20 is this idea that you can't look at a two-sided market at  
21 one side in isolation when the success of the one side, the  
22 buyer, depends on the success of the seller, and the key  
23 thing was the indirect network effects, but we can talk  
24 about that as we go along.

25 So *AmEx* itself -- and I've read it maybe not as

1 much as Your Honor, but also quite a lot -- says that  
2 two-sided transaction platforms facilitate a single  
3 simultaneous transaction jointly consumed. And, in this  
4 case, virtually every witness talked about buy-side and  
5 sell-side facilitating a single simultaneous transaction  
6 between buy-side and sell-side.

7 So if you -- in the way that Your Honor raised the  
8 question, you know, you have a merchant and a credit card  
9 holder, and they are making a connection through these  
10 tools. Here, you have a publisher selling inventory and an  
11 advertiser who wants to buy inventory, and they're making a  
12 connection through the tools. And the evidence really  
13 supported that description.

14 So the experts, including plaintiffs' experts,  
15 uniformly agreed -- and I think this is key to Your Honor's  
16 question -- that the jointly consumed transaction is the  
17 match between publishers and advertisers. And we put  
18 Professor Weintraub, Professor Lee, and Professor Simcoe on  
19 this slide so that the Court could see that they are talking  
20 about the jointly-consumed transaction being the match.

21 So the point is that when the transaction is the  
22 match and the success of one side depends on the other,  
23 because if you lose customers on one side, the other side is  
24 unhappy because they're losing quality matches, that is  
25 indirect network effects, as I'm sure the Court knows. And

1 the Supreme Court says that is one of the important ways  
2 that these kinds of platforms are distinguished. And  
3 there's also no dispute in this case -- plaintiffs' experts  
4 also say -- and this is at our findings of fact, 285 -- that  
5 ad tech is characterized by these indirect network effects.

6 So you have the plaintiffs' own experts agreeing  
7 they're indirect network effects, and the jointly-consumed  
8 transaction is the match between publisher and advertiser  
9 facilitated by the tools.

10 And what I understand the plaintiffs to be saying  
11 is that, okay, well, the ad exchange is two-sided, but the  
12 place where we go wrong is that the ad server and the buying  
13 tool -- and they focus only on Google Ads -- those are  
14 one-sided. And there's no expert support for that. And the  
15 reason is that that doesn't make any sense. Because if  
16 everyone agrees that the jointly-consumed transaction is the  
17 match, all of these tools are being used to facilitate that  
18 match.

19 And maybe it will assist the Court. We put on  
20 this slide an illustration that *AmEx* rejected the argument  
21 that the plaintiffs make in this case that I heard them make  
22 again this morning, which is they're saying, well, on one  
23 side, there are these services offered only to publishers,  
24 and on the other, there are services offered only to  
25 advertisers.

1                   And this was the exact same argument that was made  
2 in *AmEx* where the petitioners argued that card holders were  
3 offered certain services, and merchants were offered certain  
4 services, but the *AmEx* Court says these separate services  
5 are provided to the cardholders and the merchants for the  
6 purposes of bringing them together on the two-sided  
7 transaction platform, and so they reject this exact  
8 argument. And we helpfully, I hope, plugged the words of  
9 this case directly into *AmEx* so the Court could see how  
10 exactly on point *AmEx* is to this case. So in each  
11 circumstance, you have one side trying to transact with the  
12 second side through the tools.

13                   Now, the Supreme Court also rejected the other  
14 argument that plaintiffs have made, which I didn't really  
15 hear them make this morning, so I won't belabor it, which is  
16 that buy-side and sell-side tools are complements, not  
17 substitutes. And that, again, was an argument made by the  
18 petitioners in *Ohio v. AmEx*, and the Supreme Court rejects  
19 it.

20                   And I think this may also help shed some light on  
21 what's going on, the next slide, so I'm going to spend a  
22 little bit of time on this slide.

23                   So what we saw in this case is that Google and its  
24 competitors are all talking about the single-sided market in  
25 the same way. And if you look at the top of the slide,

1 there's a quote from Ben John. He's the Microsoft corporate  
2 representative. And what he says is -- he doesn't start  
3 with a few large publishers like the plaintiffs do. He says  
4 you start with the advertisers because they're the ones who  
5 are paying the check. They're paying the money. And he  
6 says you need to have demand to fuel the ecosystem and that  
7 is what has the effect of scaling the rest of the platform,  
8 including the publisher side.

9                   And Mr. Farber, who's Meta's corporate  
10 representative, said the Meta Audience Network considers any  
11 player who will consolidate demand from different  
12 advertisers to be a competitor, and he says if Meta can  
13 provide better value, meaning that users are going to see  
14 their ads -- see the ads of the advertisers because of  
15 Meta's platform, advertisers will come to them. And if  
16 Google can, the advertisers go to Google.

17                   And you can see that Scott Sheffer is saying  
18 essentially the same thing. If advertising money is flowing  
19 to Meta or Amazon or Yahoo, that is money that's not coming  
20 to Google and Google's publishers.

21                   And so when the players in the industry talk about  
22 the field of competition, they're talking about a two-sided  
23 market where the fuel is coming from the demand side in the  
24 form of the money, and that feeds the sell-side. And that,  
25 in turn, grows the demand side and so on and so on in the

1 feedback loop that all experts in this case agreed existed.

2 And all these companies are doing, including Meta,  
3 including Amazon, including Microsoft, and others, is  
4 they're all competing for the spend because that is what  
5 powers the platforms from the advertisers on one side, who  
6 want to connect to the publishers on the other, because that  
7 is how people are going to see the ads.

8 And I don't know, Your Honor, if that assisted the  
9 Court, but I think looking at how these market participants  
10 describe this makes it clear that what they're really  
11 talking about is a two-sided platform. There's nobody  
12 saying Google's a monopolist in the exchange. Like,  
13 nobody's saying that. There's not an expert that said that  
14 or fact -- the experts said that. But there's no fact  
15 witness that thinks about it that way. This is how the fact  
16 witnesses talk about the competition and what they're  
17 competing for.

18 Does the Court have additional questions on --

19 THE COURT: Go ahead.

20 MS. DUNN: Okay. All right. And so to wit,  
21 Microsoft's ecosystem looks almost exactly the same as  
22 Google's does, except Microsoft's has advantages that  
23 Google's does not, gaming in the form of Xbox, streaming in  
24 the form of Netflix where Google actually lost the deal to  
25 Microsoft -- the Court heard that -- social in the form of

1 LinkedIn. And this diagram was authenticated by Microsoft's  
2 corporate representative in his deposition, and it clearly  
3 has a buy-side and a sell-side and tons of inventory, and  
4 they are competing with Google to attract those advertisers  
5 into this ecosystem.

6 And I think there are a few slides in this case  
7 where we look at them and say what are we doing here?  
8 Google is competing with one of the largest companies in the  
9 world, which has an ecosystem that looks pretty much the  
10 same, except that company has advantages that Google doesn't  
11 have. And notably, I don't think Microsoft was mentioned  
12 once this morning by the plaintiffs, and they, obviously,  
13 did not call Microsoft as a witness in this case.

14 Now, Criteo -- which probably no one here had ever  
15 heard of before this case -- has proprietary user commerce  
16 data from over \$1 trillion in online sales annually. It has  
17 an enormous amount of data. It's another major competitor  
18 with a huge pool of advertisers and an end-to-end platform.  
19 And this is Criteo's own document showing that it has an  
20 integrated platform with a buy-side and a sell-side. And  
21 just like those other companies we all know about, it is  
22 competing for the advertiser demand.

23 And Criteo is another what-are-we-doing-here  
24 moment because plaintiffs are saying that Google and Criteo  
25 are the only two competitors in what plaintiffs call an

1 advertiser ad network market. And no one else thinks that  
2 market exists, including Criteo.

3 This is Criteo's 10-K filing where it tells the  
4 SEC that it is part of one complex, rapidly evolving, highly  
5 competitive market where it competes on both the buy-side  
6 and the sell-side against Google, Amazon, Meta, Microsoft,  
7 and any others -- many others.

8 And so the plaintiffs say, well, we just rely on  
9 Dr. Israel, but that's not true. We relied on testimony of  
10 witnesses, SEC filings, internal documents not just from  
11 Google but elsewhere, and we relied on data of substitution.

12 We also rely on their expert, Professor Lee.  
13 Professor Lee acknowledged that Meta and Amazon have ad tech  
14 that includes all the functionalities of the tools at issue  
15 in this case. And they use the tools to attract advertisers  
16 away from competitor platforms, including Google. The tools  
17 then enable advertisers to buy, in the case of Meta and  
18 Amazon, on Meta's and Amazon's owned-and-operated  
19 properties. And Google also does this.

20 And also like Google, Meta and Amazon enable  
21 advertisers to buy on third-party properties. So in Meta's  
22 case, they're buying on third-party apps; and Amazon, as the  
23 Court knows, has a DSP that buys on third-party exchanges  
24 that the plaintiffs don't mention, as well as a header  
25 bidding wrapper called TAM.

1                   And so plaintiffs are ignoring all of this  
2 competition that these companies are recognizing and that  
3 their expert recognized of these huge companies that Google  
4 is competing against.

5                   We also had heard a lot of evidence that  
6 underscored the two-sided market that many companies with  
7 these huge pools of advertisers, like The Trade Desk and  
8 Yahoo and Criteo and Magnite and PubMatic, are all moving  
9 and have already started this toward an end-to-end stack  
10 that bypasses these individual components, and that is  
11 called supply path optimization.

12                  And plaintiffs' answer to supply path  
13 optimization, which so clearly illustrates that there is a  
14 two-sided market between publisher and advertiser, is to  
15 say, well, that's very limited. But their own witnesses --  
16 this is one example. PubMatic, the CEO says right now SPO  
17 is 35 to 50 percent of their platform activity and in the  
18 next several years will be 75 percent. And you can see this  
19 picture on their -- in their own document that shows their  
20 tools. Their pathway is connecting the publisher to the  
21 advertiser to make the match, the jointly-consumed  
22 transaction.

23                  The Trade Desk similarly testified their tool is  
24 called OpenPath, and it's integrated with some of the  
25 biggest publishers, including Reutters, The Washington Post,

1 Gannett, USA Today, Condé Nast, BuzzFeed, The LA Times, and  
2 Forbes.

3 So this slide shows why the plaintiffs want to run  
4 away from *AmEx*, and that is because, based on the data,  
5 Google's share in a two-sided market is decreasing and has  
6 been steadily decreasing. And this is just not what  
7 monopolization looks like.

8 And the other thing that was pointed out in this  
9 trial is that as Google's share is going down, its revenue  
10 is going up, meaning that the industry is growing much  
11 faster than Google's piece.

12 Now, also on the topic of two-sided markets,  
13 plaintiffs' case relies very heavily on their assertion that  
14 Google charges super competitive fees. But as the Supreme  
15 Court says, that a two-sided market requires consideration  
16 of the market as a whole and fees must be assessed end to  
17 end.

18 And when fees are assessed end to end, Google's  
19 fees are among the lowest in the industry. So Google's fees  
20 are the darker blue bars towards the bottom. And that's  
21 because when you have an integrated system, one of the  
22 benefits is lower prices because you don't have multiple  
23 companies coming in to take a cut. And so this chart and  
24 data were not disputed by the plaintiffs.

25 Now if the Court would like, I can address the

1 estoppel argument. First of all, none of the prongs of the  
2 Fourth Circuit's test for estoppel were met. This was a  
3 motion to dismiss where Google made legal arguments, and we  
4 cite in our papers that it is -- motions to dismiss are  
5 decided, as the Court is aware, on legal arguments.

6 Also, the arguments that are made in the motion to  
7 dismiss brief say "absent other allegations not made here."  
8 But I think more importantly, with respect to the prongs,  
9 the court never ruled in N.D. Cal. on this. There was a  
10 case management conference where there was an agreement by  
11 the plaintiffs to pursue only a single-sided market. And so  
12 this argument, which was a legal argument, was never adopted  
13 by the court.

14 But, in any event, regardless, Google would not be  
15 estopped from arguing that plaintiffs' market is fatally  
16 narrow and gerrymandered, and *AmEx* would still bind this  
17 Court. So we don't think estoppel should hold up the Court  
18 from ruling on this.

19 And having talked about the two-sided market,  
20 which I think will come up again, I'd like to address a  
21 couple of reasons why all of plaintiffs' market fails  
22 because there are a couple of overarching reasons, and then  
23 I'd like to address the individual alleged markets.

24 So the first overarching reason that all of  
25 plaintiffs' markets fail is that they gerrymander out

1 substitutes. And Professor Lee, plaintiffs' expert,  
2 recognized substitution, including with Meta and Amazon.  
3 That's what he says here in his testimony. But he chose not  
4 to analyze it, as he also concedes.

5 And in the *Satellite Television* case, the Fourth  
6 Circuit said it's the plaintiffs' burden to show that  
7 substitutes should be excluded from the market. And so  
8 Professor Lee's concession that he recognized substitution  
9 but did not analyze it is going to be very damaging under  
10 that Fourth Circuit law.

11 So Professor Lee's answer to this is, well, he  
12 meets that burden with the cellophane fallacy. But we think  
13 the Court should reject this reference to the cellophane  
14 fallacy for the same reason that Judge Mehta in search  
15 rejected it as applied to Amazon. Amazon is not a poor  
16 substitute. It's not like wrapping your sandwich in a  
17 newspaper. And neither is Microsoft or Meta or The Trade  
18 Desk or Criteo or any of these other enormous companies  
19 against whom we compete.

20 Now, there was an enormous amount of data that we  
21 showed the Court in this case about substitution, and it all  
22 went unrebutted. Here's a chart that shows that even before  
23 Google was alleged to have monopoly power, people were  
24 substituting from web to apps and then later to connected  
25 television. And advertiser dollars, which the companies are

1 competing for, have all followed these user eyeballs.

2 We also saw dramatic substitution to social media,  
3 also beginning before Google allegedly had market power.  
4 And we presented at this trial the same marketing funnel  
5 that Judge Mehta relied on in the search case when he was  
6 talking about interchangeability. That is Lowcock  
7 Demonstrative 2. And that marketing funnel that the search  
8 case relied on shows social and display are substitutes  
9 because they have the same purpose, upper funnel purpose of  
10 getting -- of increasing awareness.

11 And the plaintiffs in this case have showed you no  
12 data on substitution at all, which is truly unheard of in an  
13 antitrust case. They showed you this morning testimony of a  
14 witness that referenced the funnel, but they didn't show you  
15 the funnel or note that the funnel puts social and display  
16 in the same place. And I won't go through all of this  
17 today, but at 425 and 432 of our findings of fact, the  
18 witnesses that they quote today as not talking about  
19 substitution do, in fact, talk about this very substitution.  
20 And that also was not shown to you this morning.

21 We also saw substitution evidence with respect to  
22 particular competitors. So we saw substitution with respect  
23 to Meta, which is the largest advertising platform in the  
24 world. And its share went up, up, up, up, up and started to  
25 decrease in recent years.

1 TikTok, also a new market entrant with a huge pool  
2 of advertiser demand, and they didn't enter the market in  
3 2008; they entered in 2018. And the growth is astronomical,  
4 and we also saw substitution to retail, which, of course,  
5 includes Amazon.

6 Now, in the search case, the court included Amazon  
7 in the search ads market and called Amazon a well-resourced  
8 market entrant with demonstrated growth. The same is true  
9 here. And I didn't hear plaintiffs talk about Amazon, but  
10 they did put up this diagram that we've seen throughout this  
11 trial, which is both simplistic and inaccurate of these  
12 three little boxes. And you can see. This is just a visual  
13 depiction of all the ways where, for example, they tried to  
14 gerrymander Amazon out. And we could have made slides like  
15 this for the other companies too.

16 But all of Amazons' tools appear just outside of  
17 plaintiffs' markets, like somehow Amazon, one of the largest  
18 companies on earth, is just on the outside of all of this  
19 looking in. But this is not commercial reality, and that is  
20 corroborated by the many documents we saw talking about  
21 competition between Google and these other companies  
22 reflecting industry recognition.

23                   This is an example from May of 2018, and the  
24 plaintiff said, you know, we don't show any evidence that  
25 these are competitors and product markets. This is

1 recognizing that Amazon is encroaching on Google's core  
2 business, the business of connecting advertisers and  
3 publishers. This is -- and we've listed the series of other  
4 documents that we don't have time to show you on the side of  
5 the slide. This is one of many documents talking about Meta  
6 as a competitor. This says Google is number two and has  
7 been since 2014.

8                   And this Microsoft document I'm going to spend a  
9 minute on because it, I think, gives a real understanding of  
10 how competition was being viewed internally as early as  
11 2017. So this is a memo written by Brian O'Kelley of  
12 AppNexus -- he's the CEO and founder of AppNexus -- writing  
13 to the CEO of Microsoft, Satya Nadella, about the  
14 competitive landscape in 2017. And he says, "This is an  
15 ideal time to make a big play. Amazon is stealthy,  
16 aggressive, and winning. Google is on the ropes and  
17 surprisingly vulnerable. Facebook and Apple have  
18 retrenched."

19                   And the evidence showed after this, Microsoft did  
20 make a big play, as Brian O'Kelley recommended, including  
21 acquiring AppNexus's end-to-end stack, so that it could more  
22 intensely compete with Amazon, Facebook, Google, and others.

23                   Now, the second overarching failure of plaintiffs'  
24 markets is that they gerrymander out other obvious  
25 substitutes, like header bidding and direct deals. And if

1 there was one thing we knew for sure when trial ended, it  
2 was that header bidding was a serious competitive threat.  
3 And plaintiffs hammered this during trial, but they didn't  
4 mention it at all this morning.

5 This is a Google document saying that Facebook or  
6 Amazon getting into header bidding was Google's nightmare  
7 scenario. And as the evidence showed, the nightmare  
8 scenario happened. Amazon and Prebid header bidding compete  
9 with Google. And this is testimony of Tom Kershaw of  
10 Magnite. He helped cofound Prebid, which is a consortium of  
11 competitors with a header bidding tool. And we talked --  
12 plaintiffs raised witnesses at trial. Well, the Prebid  
13 board of companies that compete with Google was actually the  
14 largest source of witnesses for plaintiffs in this case.  
15 And they for some reason discount when we played major  
16 competitor depositions, but the Court is undoubtedly used to  
17 playing deposition testimony, particularly for third  
18 parties, rather than having them come to court live.

19 Now Mr. Kershaw in his testimony explained that  
20 header bidding competed with Google and thrived. He said it  
21 is alive and well today. And plaintiffs pointed to a 2009  
22 document from Neal Mohan that talked about disintermediating  
23 the ad server. Well, that's what header bidding did.  
24 Header bidding did disintermediate the ad server, and it did  
25 that in the time even before plaintiffs allege that Google

1 had market power.

2                   And if you look at Mr. Kershaw's testimony, he  
3 said, "It took control over the auction process that  
4 previously had been determined by what was called the ad  
5 server."

6                   Now, in response to header bidding's competitive  
7 threat, Google did exactly what the antitrust laws would  
8 want it to do. It innovated a competitor product. And here  
9 are various witnesses, Mr. Kershaw, Mr. Farber, and  
10 Mr. Glogovsky of The New York Times talking about the  
11 benefits of open bidding. And plaintiffs said nobody said  
12 nice things about our products, but that's not true. Here  
13 they're talking about how easy it is to use and how it was  
14 faster and more efficient.

15                  Now, plaintiffs are complaining about Google's  
16 competitive response to the competition from header bidding,  
17 but that is an amazing approach to an antitrust case, that  
18 they are objecting to competition and innovation in response  
19 to what everybody agreed was a competitive threat. And this  
20 chart shows that header bidding is winning more on DFP every  
21 year. It's percentage as of 2022 is over 40 percent. That  
22 is within DFP.

23                  And we also saw that since header bidding became  
24 popular, AdX's win rate went down dramatically. This is  
25 plaintiffs' expert, Professor Weintraub. He says, "AdX is

1 only winning 15 percent of the impressions it bids on."

2 Now, Professor Lee never conducted a hypothetical  
3 monopolist test, but this is a real-world hypothetical  
4 monopolist test. And there's a lot of these in this case  
5 where if we had the power that plaintiffs say we had, we  
6 would be winning and not losing. So this is the exact  
7 opposite of proof of a monopolization case, and it is  
8 actually what the antitrust laws want to encourage.

9 Now, plaintiffs also gerrymander out direct deals.  
10 They are 77 percent of U.S. display ad spend. That's our  
11 findings of fact, 496. And they compete programmatically  
12 head to head with indirect deals for every impression.

13 This is a document from OpenX in 2017, which  
14 expressly says that RTB revenue -- meaning indirect -- is  
15 threatened by programmatic direct. And there was witness  
16 testimony from plaintiffs' first witness, Tim Wolfe of  
17 Gannett, that supports this. He says, "On the USA Today  
18 network, direct sales fluctuate from 25 to 45 percent of ad  
19 sales each year." And he says, "As direct sales go up,  
20 indirect sales go down." That is direct evidence of  
21 substitution.

22 Now, finally, in addition to gerrymandering out  
23 obvious substitutes, plaintiffs' markets all fail because  
24 their expert did not actually analyze competition in the  
25 markets that he defines. And I'll take a minute to explain

1 that.

2 So first, Professor Lee says his markets are for  
3 tools, not ad transactions. But then when he calculates  
4 market share, he calculates market share by ad transactions,  
5 specifically open-web display. In other words, his market  
6 share is not actually for the markets that he has defined.  
7 And plaintiffs stressed again this morning that the markets  
8 are for tools, but that's not counted in the market share.

9 And as we assured this Court in opening would  
10 happen, there wasn't a single witness in this case that  
11 defined open-web display in the way that plaintiffs are  
12 urging on this Court. So just to do a quick review, out of  
13 the agency witnesses, one said, "This is just semantics; it  
14 just means display." Another included native ads and  
15 instream video, which plaintiffs do not, and a third  
16 included apps.

17 With respect to the experts, Dr. Abrantes-Metz  
18 said, "Well, this was just a name for the markets that  
19 Professor Lee delineated in this case," but Professor Lee  
20 had never heard the term before. And Professor Ravi, who  
21 actually teaches and writes about digital ads, said that  
22 term distinguished between open and closed auctions to  
23 private buyers, which is not a definition we heard at any  
24 other time in trial and is not plaintiffs' definition.

25 So this is an industry where companies are doing

1 constant competitive analyses with charts and graphs, and  
2 plaintiffs are asking this Court to accept a contradictory  
3 computation that has never been heard of anywhere before.  
4 And that is problematic, but the underlying problem for  
5 plaintiffs is that every tool in this case is  
6 multifunctional, including the tools that the plaintiffs  
7 themselves identify, which we listed on this slide.

8 Now, when Professor Lee was asked about this, he  
9 said he never analyzed competition for multifunctional ad  
10 tech tools, but those are the only tools in this case. And  
11 he conceded in his testimony on the screen that he did not  
12 analyze the ability to monetize inventory other than  
13 open-web display and he did not analyze how customers make  
14 choices to use these tools, including the degree to which  
15 anyone makes choices based on open-web display. So it's an  
16 antitrust case without an expert analyzing how competition  
17 works in the markets that he defines.

18 And instead, when Mr. Isaacson asked about the  
19 failure to consider these other functions, like apps and  
20 CTV, which are very popular, he said, well, this is like an  
21 open-web display is a gas station and in-app ads are the  
22 chips. But at any time after at least 2010 or 2012, it  
23 can't possibly be that open-web display is the main event,  
24 the gas station, and in-app ads are the chips.

25 And just to put it another way, which is more

1 antitrust oriented, plaintiffs never complained -- explained  
2 to the Court why open-web display ads are characterized by  
3 anticompetitive conduct but app ads are not when the two are  
4 subject to the same pricing and the same conduct, where the  
5 same tools are used to buy and sell the same ads between the  
6 same publishers and the same advertisers for the same user  
7 to see. In other words, if open-web display is the gas  
8 station, so is apps because they are the exact same.

9 And apps are important, and so is connected TV.  
10 And what the evidence actually showed was that companies  
11 compete on the basis of multifunctionality and that multiple  
12 formats of ads, as stated here in this document, can even  
13 compete for the same ad slot. And we listed the other  
14 companies where the record shows that that's true, and this  
15 is competition that the plaintiffs' expert never analyzed  
16 despite defining markets based on multifunctional tools.

17 All right. So that brings us to the individual  
18 markets, and we'll start with advertiser ad networks. So  
19 this is another instance where Professor Lee had never heard  
20 these words strung together but used them to define a  
21 market. And just at the start, this makes no sense.  
22 Advertiser ad network makes no sense. A network has two  
23 sides, and we'll talk a little bit more about that.

24 But there are hundreds of authorized buyers on AdX  
25 that compete in an auction against Google Ads, and this

1 includes demand-side platforms, like DSP -- or DV360, The  
2 Trade Desk, Amazon, and Yahoo. All of that -- all of those  
3 authorized buyers are excluded, and that includes The Trade  
4 Desk even though The Trade Desk is a billion-dollar company  
5 and even though it is bidding into the same auction as  
6 Google Ads for impressions, as the Trade Desk witness told  
7 us on the stand.

8 Now, this is plaintiffs' expert Professor  
9 Weintraub's chart, and even Professor Weintraub's chart  
10 undermines plaintiffs' argument. So to begin with, it  
11 includes DSPs, and it also includes the publisher side of  
12 the ad network that plaintiffs lopped off in their market  
13 definition.

14 And importantly, the evidence showed that the vast  
15 majority of revenue from Google Ads comes from very large  
16 advertisers. These are the advertisers most capable of  
17 substituting to DSPs, which puts economic pressure on  
18 Google. And so, as Dr. Israel said, it doesn't make any  
19 sense to leave DSPs out of the market.

20 Now, plaintiffs' response to this is to focus  
21 instead on the number of advertisers who use Google Ads  
22 rather than on how much the advertisers are spending. But  
23 it is the spend that is the competitive constraint. And  
24 Google Ads has no minimum spend requirement. So what's  
25 happening here is plaintiffs are counting a lot of people

1 who spend very little, maybe even under \$1, who are not  
2 going to put competitive pressure on Google and on that  
3 basis are leaving out DV360 and other DFPs.

4                   And so what they're left with is their alleged  
5 advertiser ad network market which includes just two  
6 companies, Google and Criteo. And remember, Criteo itself  
7 does not agree with this. Google is the discount provider  
8 in that two-company market with prices half off or more.  
9 And so this, again, is the exact opposite of proof in a  
10 monopolization case.

11                   Now, moving on to ad exchanges, the Supreme Court  
12 never found a party with less than 75 percent market share  
13 to have monopoly power, and the Fourth Circuit says  
14 70 percent is the bottom of the range. And for their ad  
15 exchange market -- this is Professor Lee's chart --  
16 plaintiffs don't allege market shares anywhere near these  
17 thresholds.

18                   So looking at spend, U.S. market share was never  
19 more than 43 percent and has declined to 34 percent. So  
20 even worldwide, which plaintiffs believe is the right  
21 measure -- we do not -- it was never more than 49 percent  
22 and has declined to 40 percent. It's very important to note  
23 that the share is declining, which Kolon Industries and the  
24 Fourth Circuit believes is important.

25                   And this is the exact opposite of proof of

1 monopolization. Andrew Casale from Index Exchange says  
2 businesses are entering and leaving all the time, and  
3 plaintiffs' response is that many of the competitors are  
4 smaller than Google. But that's the sign of a healthy  
5 market, as is also recognized in the Fourth Circuit case  
6 *It's My Party* where they talk about the Davids of the  
7 market. Small is not necessarily weak.

8                   But another important point, looking at this in  
9 the context of a Section 2 case, is that it would be  
10 inconsistent with monopolization to charge the highest take  
11 rate in the market with the lowest alleged market share.

12                   Now, plaintiffs talked a little bit about this  
13 quote from Mr. Casale where he said the exchange market is  
14 hypercompetitive. We do think that that is extraordinarily  
15 strong evidence against the plaintiff. But I'll also note  
16 that it's hypercompetitive today, and he's saying it was  
17 hypercompetitive with header bidding, which came on the  
18 scene in 2014 and 2015 before Google had what plaintiffs  
19 allege to be market power.

20                   All right. Let's talk a little bit about pricing.  
21 So as the Court already knows, plaintiffs allege super  
22 competitive prices only as to AdX and not for their other  
23 two alleged markets. Now, just looking at this chart, which  
24 we've seen many times, you can tell there are some issues.  
25 First of all, AdX never had the highest price, and six out

1 of the other seven exchanges that Professor Simcoe looked at  
2 charge take rates above Professor Simcoe's but-for take  
3 rate.

4 Now, even more glaring is that Google's take rate  
5 has been the same since the DoubleClick days, and there's no  
6 dispute about that. And after rebuilding a nascent ad  
7 exchange growing its customer base -- which, by the way,  
8 plaintiffs agree that scale has procompetitive benefits and  
9 can be an indicator of quality. So after improving the  
10 quality and the customer base and the technology, the price  
11 never went up. So plaintiffs say the price didn't get  
12 better. That's not true.

13 Finally, even though Professor Simcoe agreed that  
14 quality affects price, no expert in this case, including  
15 him, did a quality-adjusted analysis. And the Court heard a  
16 lot actually about Google's quality differentiation, things  
17 like spam controls and security from bad actors and brand  
18 safety and making quality matches. And none of that is  
19 accounted for in this pricing analysis. And this pricing  
20 analysis is the only pricing analysis in this entire case.  
21 We submit it was discredited at trial, and there's no  
22 pricing analysis with respect to the other two alleged  
23 markets. And, in fact, at the end of the day, Professor  
24 Simcoe had to concede that even if the price is higher, it's  
25 not an overcharge.

1                   All right. So what's plaintiffs' response?  
2 Plaintiffs' response is to say, okay, well, your prices  
3 didn't go up, but they're basically flat. And this is --  
4 this is a chart that uses -- this is Professor Lee's own  
5 chart, and this is an extremely telling chart. So it shows  
6 that keeping our prices basically flat is costing us  
7 share -- that's what you see in gray; you see our share  
8 going down -- as are competitors -- which is the green  
9 line -- are cutting prices. So, again, this is the exact  
10 opposite of proof in a monopolization case.

11                  All right. Moving on quickly to publisher ad  
12 servers. There's no super competitive price for DFP. It's  
13 free for most publishers. You get 90 million impressions  
14 per month for free, and businesses of any size can take  
15 advantage of that.

16                  When the Court asks plaintiffs, well, what are the  
17 better products on the market, plaintiffs cited James Avery.  
18 Well, James Avery of Kevel actually said in this trial about  
19 DFP: "No other vendor offers such a deal." This person is  
20 potentially the best commercial for how good DFP is when it  
21 comes to value.

22                  And for those who do pay, prices have gone from  
23 extremely low to lower. And that's reflected in this  
24 pricing chart where in 2022, it was 1.3 percent. And as  
25 this is happening, publisher output has increased across the

1 industry, almost a 50 percent increase. That's reflected in  
2 PTX 1277A. And so what you have is low prices and a huge  
3 increase in output.

4 So even if the Court were to find this to be its  
5 own market -- and we hope you won't -- it would a healthy  
6 one.

7 And for all the talk about how sticky DFP is,  
8 there's no evidence that DFP used its market power to  
9 create -- to increase prices in other parts of the ad tech  
10 stack, which, again, is not consistent with monopolization.

11 Similarly, we learned at trial from Mr. Wolfe at  
12 Gannett that DFP makes every single impression for which a  
13 unified auction is being run available to Amazon and Prebid.  
14 So we are here in an antitrust case where the first witness  
15 says Google enabled publishers to use its platform to offer  
16 every impression to its competitors.

17 And we also saw this. Google facilitates  
18 contracts with its rivals through its own platform. Here's  
19 the pop-up box that we showed the Court in the product  
20 demonstration. And Mr. Korula said Google does this because  
21 it's publisher customers want it, and the plaintiffs never  
22 took this on.

23 Now, again, in the publisher ad server market,  
24 substitution to apps is a major problem for plaintiffs  
25 because 90 percent of advertisers who buy on the web also

1 buy on apps and because many more people use apps than the  
2 web. We saw evidence that publishers are driving users to  
3 apps. And so, of course, publishers are not shifting all  
4 their ad space to apps, but they can shift a lot. And that  
5 constrains market power.

6 And significantly, what Dr. Israel said is that  
7 the question is not is every single publisher or  
8 advertiser -- or is every single publisher or advertiser  
9 going to switch or even if advertisers or publishers shift  
10 100 percent of their spend, the question is, is there enough  
11 shifting if Google were to raise its prices? No SSNIP test  
12 done here, but if Google were to raise its prices by a large  
13 amount, would it lose revenue? Would people shift? And we  
14 did see evidence of shifting.

15 We also saw evidence of switching to in-house ad  
16 servers, and this, too, is gerrymandered out of the market.  
17 So we heard from multiple witnesses about very large  
18 companies that build their own ad servers, and we heard  
19 concrete evidence of switching, which is substitution. And  
20 we saw that some of these companies have gone back and forth  
21 and -- including Amazon. So Amazon used to use Google's ad  
22 server and switched to use its own and yet gerrymandered out  
23 as a substitute. And plaintiffs have no response to this.

24 But here's what happens when you put in the  
25 concrete evidence of switching. When you add back in

1 publisher ad servers -- in-house ad servers, Google is at  
2 38 percent in 2022 and the others are at 62 percent.

3                   And so plaintiffs' markets are so gerrymandered  
4 that we wanted to give the Court a sense of what would  
5 happen if we just add back in some but not all of the  
6 competitive constraints. And even that dramatically reduces  
7 market share well below the Supreme Court and Fourth Circuit  
8 threshold.

9                   So if you look at -- if you just put back  
10 demand-side platforms into the advertiser ad network market,  
11 as Professor Weintraub did, it's 40 percent. And if you add  
12 nothing back into the ad exchange market, 34 percent. And  
13 if you add in just the in-house publisher ad servers where  
14 we've seen concrete evidence of switching, that's  
15 38 percent. And then if you add all of the competitive  
16 constraints that we've talked about this morning, the  
17 numbers are even lower.

18                   All right. So let's move on to anticompetitive  
19 conduct, and the first argument is going to be that  
20 plaintiffs' claims all fail because they challenge lawful  
21 refusals to deal. And this is, obviously, a very important  
22 argument for us.

23                   So in describing each of the challenged acts,  
24 plaintiffs themselves used the language of refusals to deal,  
25 and we put that on the slide for the Court. So their

1 paragraph 105, which talks about exclusivity, they say  
2 Google controls a vital input by which they say demand from  
3 Google Ads advertisers -- that's our customers -- and that  
4 Google foreclosed this vital input from our rivals. So it's  
5 hard to imagine a clearer statement of a duty to deal.

6 195, they talk about AdMeld. So the problem with  
7 AdMeld is that we did not submit real-time bids, which would  
8 have required integration of our technology to rival ad  
9 servers.

10 Their paragraph 170 about Dynamic Allocation says  
11 that AdX benefited from real-time information, which was as  
12 a result of the integration of our ad server and our  
13 exchange, but the other exchanges, our rivals, could not.

14 215, which is about last look, says -- this is  
15 talking about connecting rival exchanges to DFP so  
16 publishers could use Google's real-time bidding with those  
17 exchanges.

18 And paragraph 307, which talks about UPR, is  
19 talking about the terms and conditions that Google applies  
20 to its own platform.

21 Now, under *Trinko* and *linkLine*, a court cannot  
22 compel access to Google Ad demand, which is our customers,  
23 and RTBs, real-time bids, from AdX into third-party ad  
24 servers as a means of getting Google Ad demand. Because  
25 that requires integration of our technology, and it cannot

1 compel, in the case of UPR, a change in our platform terms  
2 and conditions.

3 Now, refusals to deal are legal -- per se legal  
4 and competitive. Because, as the Supreme Court has said,  
5 they incentivize investment and innovation. And, Your  
6 Honor, we submit that -- like *AmEx*, *Trinko*, and *linkLine* --  
7 resolve this case. And, in fact, this case, which is about  
8 real-time bidding access, mirrors the claims about  
9 auction-time bidding that Judge Mehta found were foreclosed  
10 by *Trinko* in the search case. And we've done the same thing  
11 here more or less that we did with *AmEx*.

12 So plaintiffs' argument is that *Trinko* doesn't  
13 apply because this isn't a refusal to deal; it's a  
14 conditional dealing arrangement. But this exact same  
15 argument was made by the Antitrust Division in the *Facebook*  
16 case before Judge Boasberg just a couple of years ago. And  
17 we put on the slide the words of DOJ's amicus brief in that  
18 case, which makes the exact same argument plaintiffs are  
19 urging on this Court. And as you can see, both the district  
20 court and the D.C. Circuit expressly rejected what they  
21 called, quote, this conditional dealing argument. And they  
22 saw this conditional dealing label for what it is, which is  
23 a way to avoid controlling Supreme Court precedent.

24 Now, plaintiffs only other response to *Trinko*,  
25 which you also heard this morning, is that it imposes

1 conditions on customers. Now, on this slide, we're showing  
2 every single refusal-to-deal case, including *Trinko*,  
3 affected customers. And actually, sometimes it's the  
4 customer who is bringing the case, including in *Trinko*.  
5 *Trinko* was the customer. That -- like the whole case  
6 existed because the customer brought the case. So that is  
7 not -- that is no response.

8 I'm going to skip over Lorain Journal because  
9 plaintiffs have not mentioned it and that's in our briefing.  
10 But I will talk about *Duke Energy*. Now, *Duke Energy* also  
11 supports Google's case and not the plaintiffs. So in *Duke*  
12 *Energy*, in that case, the Fourth Circuit expressly applied  
13 the Supreme Court's refusal-to-deal precedence in *Trinko*,  
14 *linkLine*, and Justice Gorsuch's Tenth Circuit decision in  
15 *Novell*. And on the right of the slide, we put what *Duke*  
16 *Energy* actually says, which is different from what  
17 plaintiffs say it says.

18 And the Fourth Circuit in *Duke Energy* says  
19 refusals to deal are one place where the law has developed a  
20 clear test to apply, and zero plus zero plus zero is the  
21 correct approach, including where there is an alleged course  
22 of conduct. And so here where plaintiffs allege five  
23 anticompetitive acts, all refusals to deal, we believe that  
24 five zeros is the correct approach.

25 But what plaintiffs seem to be arguing is that

1       Duke Energy expanded refusal-to-deal liability beyond *Aspen*  
2       *Skiing*, which the Supreme Court recognized was the outer  
3       bound of Section 2 liability. And this, Your Honor, is  
4       completely wrong. So to begin with, Duke Energy applied  
5       *Aspen Skiing* and expressly recognizes that it's a limited  
6       exception as every other court to have applied *Aspen Skiing*  
7       has done.

8                   And the Fourth Circuit cited with approval not  
9       just *Trinko* and *linkLine*, which obviously control, but also  
10      *Novell* where Justice Gorsuch refers to the *Aspen Skiing*  
11      exception as a narrow-eyed needle.

12                  And in this case, there's not been any serious  
13      argument that *Aspen Skiing* applies and that the narrow-eyed  
14      needle has been threaded, and there's nothing in the Supreme  
15      Court precedent or in the Fourth Circuit decision that would  
16      permit going beyond what the Supreme Court has already said  
17      is the outer bound.

18                  And, in fact, the Fourth Circuit in *Duke Energy*  
19      says that care must be taken lest illegality be inferred  
20      from procompetitive conduct.

21                  Now, I heard plaintiffs talk about dreams of a  
22      monopoly, but what *Trinko* says is that every firm should  
23      dream of becoming a monopoly and that that's what the  
24      antitrust laws want.

25                  And so it's not -- it does not mean you have

1 predatory intent, as Justice Gorsuch says in *Novell*. If  
2 there are documents that say we want to win the competition,  
3 that does not suffice to show predatory intent and certainly  
4 does not suffice to get around the long-standing Supreme  
5 Court precedent in *Trinko* and *linkLine*.

6 Now, plaintiffs also reference *Via Media*. Well,  
7 *Via Media* also applied *Aspen Skiing*. And when I looked at  
8 it the other day, I noticed -- that I hadn't before -- it  
9 includes a side-by-side chart of things that are true in *Via*  
10 *Media* and that were true in *Aspen Skiing*. And like *Duke*  
11 *Energy*, what *Via Media* is saying is that if the Court  
12 concludes that the claim meets the *Aspen Skiing* standard, it  
13 can still move forward. And there's nothing in any of these  
14 cases that say you can dispense with having a preexisting,  
15 presumably profitable course of dealing. That's not what  
16 these cases stand for, and in any event, none of those  
17 arguments have been made here.

18 So *Trinko* and *linkLine*, we think, decide this  
19 case, but we will go through the acts anyway and -- starting  
20 with plaintiffs two exclusivity claims. Now, this, I think,  
21 was -- the Court was getting to this in the Court's  
22 questions. Plaintiffs are saying that customers need AdX to  
23 get to Google Ads advertiser demand and DFP, in turn, is  
24 needed to get to AdX. So in other words, both of these  
25 exclusivity claims depend on Google Ads' advertisers being

1 unique demand, demand that can't be found anywhere else with  
2 revenue that can't be generated anywhere else.

3 Now -- so what that means is we're going to talk  
4 about unique demand, but both of the exclusivity claims are  
5 implicated by plaintiffs' failure to show unique demand.

6 Now, this is Dr. Israel's chart based on Professor  
7 Lee's data, and what it shows is that the top 1 percent of  
8 Google Ads' advertisers, the very large advertisers who  
9 multi-home and have the most economic power, are responsible  
10 for more than 90 percent of impressions purchased by Google  
11 Ads' advertisers. So at most, even if plaintiffs can claim  
12 that there's unique demand, that would be less than  
13 5 percent of Google's ad demand.

14 Second, plaintiffs rely very heavily on Google  
15 saying it has unique demand, but we turn -- we put on this  
16 chart every place where everybody else says that they have  
17 unique demand too. So talking about unique demand is not,  
18 in fact, unique.

19 THE COURT: But isn't, in fact, the evidence in  
20 the case because the publishers feel so locked into using  
21 the Google Ad tech, isn't that by itself proof that, in  
22 fact, there is unique demand generated by Google Ads?

23 MS. DUNN: No, Your Honor, because here's why.  
24 There's no -- there's no dispute that there are things that  
25 a certain small group of publishers want that they are not

1 getting, and the way that they articulated that was access  
2 to real-time bids so that they could have Google Ads' demand  
3 compete against all other demand at the same time.

4 But the truth is that these publishers have access  
5 to Google Ads' demand in other ways. So, first of all, they  
6 can use AdSense, which we'll talk about, which connects to  
7 an ad server. They can -- Google Ads' demand connects to  
8 DV360 and, therefore, other rival exchanges that the  
9 publishers can access.

10 So what they're really saying is that they can't  
11 have access to Google Ads' demand in the exact way that they  
12 would prefer, but there are many other ways to get access to  
13 Google Ads' demand that we've discussed in this trial. So  
14 we're not here to argue that there's not a small collection  
15 of large publishers, like News Corp and The Daily Mail, who  
16 are unhappy. That was certainly true at trial.

17 But the question under the antitrust laws is not  
18 how can we provide access to our own customer base in  
19 exactly the way that these companies want or that our rivals  
20 want. In fact, *linkLine* says that that -- that's completely  
21 protected to not do that.

22 So there are really two things going on. One is  
23 these customers, these Google Ads' customers who multi-home  
24 across all of these DSPs, right. These are the large  
25 advertisers and agencies who have 95 percent of the revenue.

1 They are accessible to the publishers. They do have access.  
2 They just don't have access in the precise way that they  
3 would like, which is to put -- to put that group of  
4 advertisers in competition with all other demand sources at  
5 the same time with real-time bids through AdX. And that is  
6 what this case is actually about, and that is what they said  
7 that they want to be community property.

8 I'll also say, now that we're on this topic, that,  
9 you know, there wasn't -- you know, the publishers who  
10 testified here, News Corp, Daily Mail, and Gannett, those  
11 are three publishers. There are millions of publishers who  
12 interact with Google's ecosystem. And so the Court never  
13 heard from the many publishers who are, you know, happy with  
14 what they're getting from the plaintiffs. They never put  
15 that evidence on.

16 So this is -- you know, most of those witnesses  
17 that testified in this case are literally on the board of  
18 something called Prebid, which is an open-source consortium,  
19 and their view of the world is just entirely different, not  
20 just for -- you know, Google has made its products  
21 interoperable. So sort of different than Google's view of  
22 the world but definitely different from the way that the  
23 antitrust laws work. They do not say that you have to share  
24 your technology, your real-time bidding, or your customer  
25 base on terms that other people want.

1                   So I will also say that -- because I think it's  
2 responsive to Your Honor's question -- if you look closely  
3 at the testimony -- Mr. Kershaw's testimony, for example,  
4 when he says we want access to this demand, he doesn't say  
5 they don't have access to the demand. What he says is we  
6 want access to as much as we can get, as much as possible.

7                   And with -- and so the issue really is this. You  
8 know, the real-time bids into AdX which is made possible on  
9 the Google system by the integration between DFP and AdX.  
10 So what they're really asking for and what this entire case  
11 is really about is this demand to integrate rival ad  
12 exchanges with DFP as closely as Google's own software is  
13 integrated as a means to get Google Ads' demand, which they  
14 can get in a variety of other ways.

15                   Does that help? Okay.

16                   So one thing I -- item I just mentioned is AdSense  
17 and --

18                   Let's hold on. Okay.

19                   So at the beginning of this trial, plaintiffs seem  
20 to be pressing the case that if you're The Staunton News  
21 Leader, you had no way to get Google Ads' demand. And on  
22 the first day of Google's case, it became clear that Google  
23 does have a tool for that. It's called AdSense for Content,  
24 and it is the other half of Google's ad network. And  
25 AdSense has complete access to Google Ads' demand. It can

1 be used with Google's ad server or anyone else's ad server  
2 or no ad server at all. And this is why this tool, which  
3 gives complete access to Google Ads' demand and can be used  
4 with any other ad server, like Scott Sheffer said with  
5 Microsoft Monetize, has been completely excluded from  
6 plaintiffs' case. And instead, what they did was make up  
7 something called an advertiser ad network.

8           But this is a big hole in their case and kind of  
9 gives away what's going on here because if they really cared  
10 about getting access to Google Ads' demand using any ad  
11 server or no ad server at all, there is actually a tool for  
12 that.

13           Now, fourth -- and I should have mentioned this  
14 before in response to the Court's question -- is Google  
15 built something called AWBid, which did connect Google Ads'  
16 advertisers to rival exchanges under certain circumstances.  
17 And the AWBid story illustrated how difficult it is to make  
18 these integrations safe.

19           And per Bjorke, who worked on Google's ad spam  
20 team for 11 years, he testified that when they first started  
21 to run experiments on AWBid, he saw an exceptionally high  
22 level of invalid traffic because other ad exchanges did not  
23 do a good enough job of keeping bad actors out of the  
24 system.

25           And Google, as the Court heard from the very

1 beginning, is very concerned about vetting publishers and  
2 advertisers on both sides of the network. And so this is a  
3 document that shows 70 percent of spam, 98 percent of clicks  
4 or spam in the other exchanges.

5 Now, the Court asked about latency. Mr. Jayaram  
6 and Mr. Bjorke and contemporaneous documents all talk about  
7 latency, and that's one reason it is hard to do these  
8 integrations in a way that don't disturb the service that  
9 the customers are used to. That's paragraph 831 of our  
10 findings of fact.

11 And I also heard plaintiffs say that security is  
12 not a procompetitive justification, and that has been --  
13 there's no court that has ever said that. Security is, of  
14 course, a procompetitive justification and was illustrated  
15 by Mr. Bjorke's testimony that when there was the methbot  
16 scam, they got in through DV360, not Google Ads because  
17 Google Ads is much more secure because it's not as  
18 integrated.

19 Now, to the Court's question from before, to the  
20 extent that plaintiffs are looking for a Google buying tool  
21 that fully connects Google advertisers with publishers who  
22 sell on rival exchanges, that's DV360. Now, it is more  
23 vulnerable to ad fraud scams; although, Google works on that  
24 too. So -- but it's more open. There are trade-offs, and  
25 Google is allowed to make products that suit different

1 customers' needs in different ways.

2 Now, this also goes to Your Honor's question,  
3 which is if you look closely, when the industry participants  
4 are complaining about losing Google demand, they are talking  
5 about losing AdX demand. And that includes DV360 and many  
6 other authorized buyers, like The Trade Desk and Yahoo and  
7 Criteo. Okay.

8 So if you -- so we put some of this on the slide,  
9 but The Daily Mail and Gannett and Kevel all explain that  
10 they're losing access to ads -- that ads demand that comes  
11 through AdX, which includes all of these other things.

12 So there is not evidence in this case that  
13 measures the loss of unique Google Ads' advertisers. And in  
14 any event, that number would be extremely small because the  
15 vast majority of Google Ads' advertisers are these companies  
16 who are multi-homing.

17 So just to put a fine point on this, there's no  
18 evidence that advertisers who use Google Ads use it  
19 exclusively. In fact, there's infinite -- not infinite, but  
20 quite a lot of evidence to the contrary, and Google Ads'  
21 demand is not only available via AdX.

22 Now, plaintiffs' second exclusivity claim fails  
23 for the same reason -- which is the reason they care about  
24 DFP AdX integration -- is because they want Google Ads'  
25 demand. So all of that argument about unique demand applies

1 to the second exclusivity claim.

2           But the second exclusivity claim also fails  
3 because they say it's a tying claim, and it's not really a  
4 tying claim. And we put this up on the screen. This is  
5 from the plaintiffs' conclusions of law. And basically,  
6 what it says is you could disaggregate the products and  
7 offer the publisher companies' customers AdX's real-time  
8 bids and pricing information through rivals.

9           So what they're saying -- and they've not really  
10 challenged in this case the integration of the products --  
11 is that you could separate the products and that wouldn't be  
12 enough. Like, what they're really asking for is the second  
13 part. And the second part is not something under *Trinko* and  
14 *linkLine* that can be compelled. Neither is the first part.

15           In any event, AdMeld also falls into the same  
16 bucket. What the plaintiffs actual complaint is is that  
17 AdMeld had nascent RTB functionality, and when Google  
18 acquired AdMeld, as the evidence showed, its focus was on  
19 acquiring a company for traditional network yield  
20 management, not real-time bidding.

21           And so what plaintiffs are really complaining  
22 about is that when we acquired AdMeld, we didn't do this  
23 thing that we have never done, which is to integrate AdX  
24 with rival publisher ad servers to give real-time bids into  
25 rivals. And we'll talk in a little bit about the legitimate

1 business reasons for not doing that, which were reinforced  
2 by the experience of the CEO who came from AdMeld who talked  
3 about how difficult it is to do such a thing.

4 So that's this document. And what this document  
5 shows is that Brian Adams, he was the co-founder and CTO at  
6 AdMeld. And he had experience with trying to do these kind  
7 of server-side integrations, and he said these integrations  
8 were plagued with ongoing issues. And you can see there was  
9 some discussion in this document, and at the end, Google  
10 concluded the business case does not justify the  
11 development, including because of the spam and other issues  
12 that the engineers had flagged. DTX 150, not on this slide,  
13 that document shows that third parties were unwilling to do  
14 the technical work to integrate without a rev share. That  
15 document actually has a Google employee saying, "I would  
16 love to be in touch with these third parties, but they're  
17 not willing to do the work."

18 And so deciding not to integrate your products  
19 because of spam and engineering issues is not an antitrust  
20 violation even if some of the large publishers don't think  
21 it is their optimal choice. That is a legitimate business  
22 justification.

23 Now, various witnesses inside and outside of  
24 Google talked about how difficult it is to achieve these  
25 technical integrations. And this, quote, is very

1 significant. Because here Mr. Korula was asked, "Why don't  
2 you do this?" And he said, "We'd have to rework AdX's core  
3 code, which would take a team of engineers years to do."

4 And none of plaintiffs' witnesses, fact or expert,  
5 understood the massive amount of work that this would take  
6 and that essentially what they're really asking for when  
7 they complain that they can't have real-time bids into AdX  
8 in the exact way they want is that they're really asking  
9 Google to build a whole new product. And it's a valid  
10 business decision to decide not to do that. Google gets to  
11 decide that.

12 And why does this matter? Well, *Trinko, Novell*,  
13 and the court in search all talk about why this matters.  
14 Judge Mehta says, "How's the Court supposed to say when and  
15 how Google should have integrated?" Justice Gorsuch worried  
16 that this would risk judicial complicity and collusion and  
17 dampen price competition.

18 And by the way, that was illustrated when Andrew  
19 Casale of Index Exchange said his strategic partnership with  
20 Amazon reduced Index Exchange's competition with Amazon by  
21 50 percent. And that's what Justice Gorsuch was worried  
22 about, and that's why courts don't compel this.

23 All of the courts worried that enforced sharing  
24 requires courts to act as central planners and says that  
25 that's a role for which they are ill-equipped. And if

1 Google or any other company is required to share its  
2 customers or technology or data with competitors to comply  
3 with the antitrust laws, how are they supposed to know how  
4 much sharing those laws require? Everything? Something?  
5 How much is enough? When should they do it? Plaintiffs  
6 don't have any answers to these questions. They're coming  
7 to ask this Court to do this, which is precluded by law,  
8 with no answers to any of those questions.

9 And I also will say -- plaintiffs have said in  
10 their briefing this is not a liability issue. Well, in  
11 every court that has decided this and applied these  
12 refusal-to-deal precedents, it has been a liability issue.  
13 And it's ironic because the plaintiffs are arguing the exact  
14 opposite in the play case in the Ninth Circuit where they  
15 say, actually, *Trinko* is about liability, not about  
16 remedies. And it is about liability. Okay.

17 So the last problem with the plaintiffs' tying  
18 claims that's in our papers is that if you -- these  
19 aren't -- as we've said, they're not actual tying claims.  
20 But even if they were, they would fail because the  
21 plaintiffs haven't proved market power in the tying product,  
22 which here is Google Ads' demand. And Professor Lee  
23 admitted he had defined no market for advertising or ads.  
24 So legally, that claim fails anyhow.

25 Now, plaintiffs are saying, well, AdX and DFP --

1 AdX is the tying market. It's not. But even so,  
2 40 percent -- they're saying 40 percent is sufficient market  
3 power. Well, that's not true because the power, as they're  
4 saying, is coming from Google Ads. But in any event, AdX --

5 THE COURT: That was the five-minute warning.

6 MS. DUNN: Understood, Your Honor.

7 AdX has no power to create a tie with DFP because  
8 you do not have to use AdX with DFP. The vast majority of  
9 people who use DFP do not use AdX.

10 So there are so many reasons that this tying claim  
11 doesn't exist, and then the last is there's no competitive  
12 effects shown from the AdX-DFP tie.

13 So I do probably have more than five minutes left,  
14 Your Honor, and I think it's a good time for me to ask if I  
15 will get a little bit of grace from the Court.

16 THE COURT: Five minutes.

17 MS. DUNN: Okay. So first look and last look are  
18 also challenges to a refusal to deal. Plaintiffs demand  
19 that Google build interoperability between rival exchanges  
20 and DFP in order to extend Dynamic Allocation to rival  
21 exchanges.

22 Now, the reason this quote is up here is because  
23 Scott Spencer, who worked on DFP at DoubleClick and knows  
24 Dynamic Allocation, is talking about how Dynamic Allocation  
25 is made possible by the integration between the ad server

1 and the exchange. And that is critical.

2 It also was procompetitive. Their experts  
3 illustrate -- or admit that this made the products more  
4 attractive.

5 And given Your Honor's five-minute warning, I'm  
6 now going to skip like all the way to the end because I feel  
7 like the end is very important. Okay. It's close to the  
8 end. Hang on.

9 All right. So this is where I want to end, Your  
10 Honor. I want to end with the plaintiffs' own chart. Now,  
11 I'd be surprised if we didn't see this chart again today.  
12 But this is our output chart, and I was happy to see the  
13 plaintiffs use it at trial because I think it dooms their  
14 case. And even more importantly, this slide illustrates why  
15 this case was misconceived in the first place.

16 So all four of these graphs represent legal cases,  
17 *Standard Oil* in 1909, *AT&T* in 1982, *Microsoft* in 1999, and  
18 this one right now. And in every one of the others, the  
19 court assessed the defendant's share of the market,  
20 75 percent, 77 to 90 percent, and 80 percent. And that is  
21 what these cases said. Here, Google is at 10 percent, and  
22 that blue line represents extraordinary market-wide growth.  
23 So this is like that sold song, Which of These Things is Not  
24 Like the Other.

25 And this -- Your Honor, this is the basis upon

1 which plaintiffs come to this Court and ask it to overturn  
2 *AmEx* and *Trinko* and *linkLine*, and this is the basis upon  
3 which they're bringing this Court arguments that other  
4 courts have rejected. And this is the basis they offer for  
5 the extraordinary step of governmental interference in a  
6 rapidly evolving technology market.

7 THE COURT: Wait. I'm going to give you an extra  
8 minute or two because I have a question for you on this.

9 MS. DUNN: Great.

10 THE COURT: On the far left side, it says U.S.  
11 display ad spending, so many billions of dollars. Over what  
12 form of media? Are we talking about open web? Are we  
13 talking apps? What do you have on that side?

14 MS. DUNN: Yeah. So this is -- so this data comes  
15 from eMarketer, which Professor Lee also agreed was a good  
16 measure.

17 THE COURT: Okay.

18 MS. DUNN: And it does include apps and CTV, and  
19 it also includes social media.

20 THE COURT: Do you have a similar chart just using  
21 the proposed market, which the government has been arguing  
22 throughout this case, which is that we would be limiting  
23 this to open-web display? We're not including apps. We're  
24 not including video. I'd like to see the same chart. Do  
25 you have that?

1 MS. DUNN: Also, tellingly, there's no data for  
2 that. That is not how the data is broken out. So you  
3 can't -- this goes to our gerrymandering point. There's  
4 nobody that has created the possibility of having the data  
5 that you talk about because nobody thinks about the market  
6 in this way. So that's the --

7 THE COURT: You've got two extra minutes.

8 MS. DUNN: The other thing I would say, though,  
9 Your Honor, is that the Google line also reflects that. So  
10 the Google line here reflects all of those things, including  
11 Google's owned and operated, like YouTube.

12 Okay. So in conclusion, Your Honor, and since  
13 this is our last word here, we want to very much thank the  
14 Court and the Court's staff for your time and attention  
15 and, of course, for the trial, which was I think for  
16 everybody an extremely positive experience thanks to Your  
17 Honor.

18 So we are leaving for the Court this list of  
19 principals of antitrust law that would need to be  
20 disregarded in order to find for the plaintiffs. And in  
21 closing, we just note that this list is underinclusive, much  
22 like plaintiffs' market.

23 Thank you, Your Honor.

24 THE COURT: All right. Ms. Wood.

25 And, Ms. Wood, I want you to start with the thing

1 we just left off with, with Ms. Dunn's statement that there  
2 is actually no actual evidence in the record that would  
3 support an analysis of the degree to which Google actually  
4 dominates that particular market that you've described as  
5 the market that's at issue in this case, the open-web  
6 display.

7 CLOSING ARGUMENT ON BEHALF OF THE PLAINTIFFS

8 MS. WOOD: Sure, Your Honor.

9 So let me start with that. Obviously, this case  
10 included lots of evidence. You heard references repeatedly  
11 from Dr. Lee and others to terabytes of data, including  
12 log-level data that was produced by Google and multiple  
13 market participants. It is that log-level data that was  
14 produced not only by Google but other market participants  
15 that allowed Professor Lee to calculate the market shares  
16 for open-web display where we do see in each of the markets  
17 numbers like 80 to 90 percent in DFP, 80 to 90 percent in  
18 the advertiser ad network, and 50 to 60 percent for the ad  
19 exchange, again, relative to the next largest competitor  
20 that is a fraction of that amount.

21 As I was sitting here listening to defense  
22 counsel's closing, I was actually reminded of Dickens' *A  
23 Tale of Two Cities*. Is this the best of times, or is this  
24 the worst of times? This trial was really about two  
25 different tales, and it's up to this Court to decide, based

1 on the law and based on the evidence, which of those tales  
2 is consistent with what you heard from that witness stand.

3                   One tale was told almost exclusively by the market  
4 participants themselves, individuals who live and breathe  
5 these markets every day and who were not paid to come here  
6 and testify.

7                   Another story, a very different story, was told by  
8 the defendant's witnesses, all but one of which received  
9 money from Google. And what did you hear from them? You  
10 heard from them mostly theory and very little fact.

11                  What did you hear from Professor Milgrom, a man  
12 with obviously commendable and impressive credentials, a  
13 Nobel Prize? But his opinions, Your Honor, were at war with  
14 the facts here. Despite the repeated evidence heard from  
15 multiple market participants, Mr. Milgrom -- Professor  
16 Milgrom testified that, actually, first look is a  
17 disadvantage, not an advantage at all to go first in the  
18 auction and have the opportunity to actually bid. Whereas  
19 other market participants don't. That's a nice problem to  
20 have if you can get it.

21                  You heard Professor Milgrom also say that last  
22 look -- he couldn't say for sure whether that was actually  
23 an inherent advantage. Again, a theory offered in  
24 contradiction to the hard commercial reality of facts.

25                  And what did you hear from Dr. Israel, defendant's

1 economic expert? Essentially, let them eat cake. These  
2 publishers, if they're unhappy, all they need to do is build  
3 their own in-house \$100 million publisher ad server. All  
4 they need to do is work harder. Sure, they testified they  
5 do all they can to sell business directly, but just work a  
6 little harder and sell more directly. Or why don't you just  
7 switch to app? Take those websites that you've created and  
8 just convert all your users over to app. How easy could  
9 that be?

10 Well, the Court heard directly how challenging  
11 that was from, again, a fact witness, someone with real  
12 experience in these markets, Mr. Wheatland, who testified it  
13 ain't so simple.

14 This case is about two different versions of  
15 reality, and I will say I find it a bit rich being accused  
16 of gerrymandering or manufacturing for litigation market  
17 definition when this is the company who issued mandatory  
18 communicate-with-care policies to its employees instructing  
19 them to use preferred vocabulary when talking about  
20 antitrust matters, to stamp their documents privileged and  
21 confidential, and to speak freely only in off-the-record  
22 chats that are deleted after 24 hours.

23 We don't need that missing evidence to prove the  
24 facts of this case. The facts of this case are  
25 overwhelming. But we still do very much believe that that

1 destruction of material evidence does qualify for an adverse  
2 inference here. And if there's any fact about which this  
3 Court has any level of doubt, we believe inferences could be  
4 drawn against this defendant for that reason.

5 And I'll also add, while we're talking about  
6 making up points for litigation, that it's not the  
7 plaintiffs but the defendant who, in fact, switched  
8 positions about how to define the relevant marketplace in  
9 one court on the other side of the country and in this court  
10 here.

11 So is this, in fact, a vibrant marketplace? I'm  
12 glad my colleague showed you Demonstrative AG because I do  
13 think it's important to show. Because it puts the lie to  
14 the notion that output expansion is indicia of the absence  
15 of monopoly behavior. That is not the case. *Standard Oil*,  
16 *Microsoft*, and *AT&T* all involved markets that were thriving  
17 and yet also had monopolists behaving in inappropriate ways  
18 in those markets.

19 So the general growth of the Internet tells us  
20 very little about the markets that we're talking about here,  
21 and the fact that TikTok, Amazon, and Facebook are all  
22 household names doesn't mean that publishers or advertisers  
23 can use them to buy or sell open-web display ads.

24 Not once in counsel's closing did you hear an  
25 explanation of how those companies are competing against

1 Google in the market for publisher ad servers that are  
2 capable of selling open-web display or ad exchanges or ad  
3 networks that are capable of facilitating open-web display.  
4 And that's for one simple reason. TikTok, Amazon, and  
5 Facebook don't offer those services outside of their walled  
6 gardens. And the reality, again, is that nine out of ten,  
7 nine out of ten open-web display transactions fall or are  
8 transacted through the hands of one market participant, the  
9 defendant, Google.

10 So counsel talked about how Google was really on  
11 the ropes according to this one Microsoft document from  
12 2017. On the ropes. Well, again, what Google faced in the  
13 years 2015 to 2017 was, in its own words, an existential  
14 threat. What was that existential threat? Header bidding.  
15 And what was header bidding? Header bidding was an  
16 industry-contrived hack to get around the dominance of a  
17 publisher ad server that wasn't serving its customers.

18 Header bidding did not disintermediate the  
19 publisher ad server. Why? Because as you heard, all roads  
20 lead back to Google at the end of the day. Google -- after  
21 the header bidding auction takes place, that number is given  
22 back to Google's publisher ad server, DFP, and they, and  
23 they alone, are offered a last look. So they're not  
24 disintermediated.

25 Did they face more challenging times after header

1 bidding? Absolutely. Is that why Mr. Casale called header  
2 bidding hypercompetitive relative to the waterfall setup in  
3 which he didn't even get a chance to bid? Sure, he did, but  
4 all things are relative.

5 And do remember that while header bidding is alive  
6 and well today, every single open-web display ad that is  
7 transacted through header bidding is included in the market  
8 shares the Court has in evidence. So header bidding is not  
9 excluded from this market. Every bit of those shares are  
10 included in the fraction of 5 percent or 4 percent or  
11 2 percent of market share of other rival ad exchanges.

12 Now, there's a lot of talk about substitution and,  
13 in particular, advertisers ability to substitute. But what  
14 the antitrust law requires is that you look at the purpose  
15 of the substitution. Is the substitution sufficient to  
16 chasten a hypothetical monopolist? That means, are the  
17 tools involved reasonable substitutes such that a  
18 hypothetical monopolist would not be emboldened to raise  
19 prices or degrade quality because they fear that kind of  
20 substitution? That is not the substitution we have here,  
21 Your Honor.

22 Because one set of publishers have no other  
23 choice. Even if there were meaningful substitution on the  
24 advertiser's side of the market, which there is not, the  
25 fact that publishers can't substitute a way means that a

1 hypothetical monopolist is not chastened.

2                   And how do we know that? How do we know that  
3 Google is, in fact, not facing fierce competition? In the  
4 words of plaintiffs' -- defendant's proposed findings of  
5 fact, we know that defendant is not facing fierce  
6 competition because the defendant is still maintaining a  
7 20 percent take rate for AdX impervious to the fact that the  
8 majority of its rivals charge half that amount.

9                   And you don't have to take that from me. Take  
10 that from defendant's own witnesses who acknowledge that the  
11 AdX take rate is double the competition and that it can only  
12 be justified because of the ties, which are illegal.

13                   Was it fierce competition that Google faced that  
14 allowed it, in the words of PTX 183, to literally "holdback"  
15 its Google Ads' advertisers from building on rivals in order  
16 to do what? To promote AdX. That's not fierce competition.

17                   Was it fierce competition that emboldened Google  
18 to impose widely disfavored Unified Pricing Rules that  
19 prevented publishers from making better deals with rivals?  
20 Is that the kind of fierce competition the antitrust laws  
21 are here to protect? Of course not. Fears competition is  
22 about making better products at better prices and, most of  
23 all, allowing your customers to choose who they want to work  
24 with.

25                   Here, the evidence showed the opposite, that

1 Google degraded its products and charged its customers  
2 "irrationally" high rent. Those aren't my words; those are  
3 the words from Google's own Chris LaSala.

4 Those are not the practices you see from a market  
5 participant who faces stiff competition. Those are the  
6 actions you see from a "authoritarian intermediary," which  
7 is, frankly, a pretty apt description in the words of  
8 PTX 284 for how the market rightly views Google.

9 Now, against the weight of this evidence, what is  
10 Google doing to try to persuade you that it's not a  
11 monopolist? It's doing very simple math, a slight of hand  
12 that monopolists have used for a century. Just change the  
13 lens. Step back a few steps. Once you change the aperture  
14 of the lens and you zoom out, all the detail and the closeup  
15 facts become obscured. And when you step back out that far,  
16 maybe all that matters are buyers and sellers. Maybe all  
17 ads do compete with each other because they all vie for the  
18 customer's attention. Maybe gaming is in the same  
19 marketplace as open-web display ads.

20 But that level of a zoomed-out perspective  
21 obscures the very purpose of looking at market definition  
22 under the antitrust laws, which is to look at the arena of  
23 competition and determine if there's a problem.

24 And counsel tried to argue that AmEx somehow  
25 requires -- because this is a situation where there are

1 buyers and sellers, *AmEx* somehow requires you to collapse a  
2 number of different ad tech tools into one market with each  
3 other. That's not what *AmEx* requires. Let me quote *AmEx*  
4 specifically, "The relevant market is defined as 'the area  
5 of effective competition,'" the arena within which  
6 significant substitution in consumption or production  
7 occurs."

8 You didn't hear about significant substitution  
9 between ad servers and ad networks. You didn't hear about  
10 significant substitution between Facebook and DSP. No. So,  
11 again, *AmEx* talks about the fact when both sides  
12 simultaneously choose to use the same tool. That's not what  
13 we have here. We have a marketplace that has three distinct  
14 tools.

15 THE COURT: Ms. Wood, you started with Dickens,  
16 and you know, there's a guillotine in *A Tale of Two Cities*.  
17 I'm about to use it. All right. Your time is about up.

18 MS. WOOD: May I make one point, Your Honor?

19 THE COURT: One point.

20 MS. WOOD: Thank you, Your Honor.

21 Just on *Trinko*, let me emphasize that with respect  
22 to *Trinko*, *Trinko* did not involve tying claims as this case  
23 does. And in fact, the court's decision in *Kodak* makes  
24 abundantly clear that tying claims are still illegal under  
25 the Sherman Act.

1                   And with that, let me just say that all we ask in  
2 this case, Your Honor, is that you apply the facts exactly  
3 as you heard them from the people who participated in these  
4 markets and that you apply the law exactly as written.

5                   Thank you very much. And we, too, sincerely  
6 appreciate all the time and effort and resources that the  
7 Court and this incredible staff has put in to a trial of  
8 this magnitude, and we sincerely appreciate the experience.

9                   Thank you very much.

10                  THE COURT: Well, as I said at the end of the  
11 trial -- and I'll repeat it again -- this was one of the  
12 best -- it is probably the best tried case I've had in the  
13 years I've been on the bench, and I've had a couple of very  
14 good trials. But both of you, both teams really did a  
15 suburb job of being, first of all, well prepared, incredibly  
16 courteous to each other even though you both, you know, very  
17 vigorously, you know, believe in your positions. Obviously,  
18 I'll have to make the final decision in this case, but it  
19 was, again, a pleasure to also hear from you.

20                  No rebuttal. I know you're on your feet,  
21 Ms. Dunn.

22                  MS. DUNN: Well, Your Honor, there's one citation  
23 that directly responds to the Court's question of is there  
24 data. So I'm happy to give that to you or not if you  
25 prefer, and then there's one thing we would like to hand up.

1                   THE COURT: No. I think it's done. We've got  
2 thousands of pages.

3                   MS. DUNN: Okay.

4                   THE COURT: That is enough.

5                   Thank you. We'll recess court for the day.

6                   MS. WOOD: Thank you, Your Honor.

7                   MS. DUNN: Thank you, Your Honor.

8                   (Proceedings adjourned at 1:19 p.m.)

9                   -----

10                  I certify that the foregoing is a true and accurate  
11 transcription of my stenographic notes.

12

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*Stephanie Austin*  
Stephanie M. Austin, RPR, CRR

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